

NEW!
Dates • Format • Value



ANNUAL MEETING REGISTRATION AND ADVANCE PROGRAM



VANCOUVER, BC, CANADA

NEW DATES FRIDAY, April 15—THURSDAY, April 21, 2016

AAN
2016
Annual Meeting

The 68th AAN Annual Meeting

Experience the excellence in Vancouver, BC, Canada, Friday, April 15–Thursday, April 21, 2016.

Deadlines-At-A-Glance

Early February 2016:

Abstract Notifications Available

February 24, 2016:

Annual Meeting Hotel Reservation Deadline

March 24, 2016:

Annual Meeting Early Registration Deadline

Location

Vancouver Convention Centre

Headquarter Hotels

- ▶ Vancouver Marriott Downtown
- ▶ Pinnacle Hotel Vancouver Harbourfront

AAN.com/view/AM16

Experience Easy Online Registration

Customize your week with convenient online registration.



- ▶ Quickly and conveniently register and book your hotel
- ▶ Customize your week by adding interactive and experiential learning and networking opportunities to your online Itinerary Builder

Register Now!

AAN.com/view/register



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Annual Meeting

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Program current as of 11/09/15. Program subject to change.



Welcome to the 68th AAN Annual Meeting! It gives me great pleasure to announce some very exciting changes to the world's largest gathering of neurologists. We're building upon the successes of previous meetings to offer a truly enhanced, innovative learning experience unlike any Annual Meeting to date. For starters, this year's meeting will run only seven days: beginning Friday, April 15, and ending Thursday, April 21. This condensed timeframe offers countless opportunities for meaningful changes:

- ▶ While attendees can once again expect to find top education programming—more than 230 courses led by expert faculty from across the globe covering a wide range of topics—most education courses will now take place in two-hour increments, allowing you to better tailor your learning experience to the topics of most interest to you.
- ▶ Most* education courses are now included in a single registration fee and do not require pre-registration! Many of you asked for this change—and we listened—making the Annual Meeting a greater value than ever.
- ▶ As always, the meeting will provide a platform to experience the most innovative scientific research in the field, with an anticipated 2,700+ abstracts. But for 2016, attendees will have a chance to attend seven cutting-edge plenary sessions, one each day beginning Friday evening; six daily poster sessions beginning Saturday; new Integrated Neuroscience Session topics; and new Invited Science Sessions.

- ▶ Finally, the 2016 Annual Meeting will be more interactive than ever, with experiential learning opportunities throughout the week, including an expansion of 2015's highly popular I Talks, and all-new dynamic Experiential Learning Areas conveniently situated throughout the convention center.

2016 is going to be an exciting meeting—a true experience in excellence! And I look forward to seeing you in beautiful Vancouver.



Stefan M. Pulst, MD, FAAN

Chair, Meeting Management
Committee



NEW! Experience Value with Single Registration Rate

You asked and we listened: In addition to cutting edge scientific programming, most education courses will now be included in one, low, single registration rate*.

- No pre-registration for individual courses* required
- Not-to-be missed social events
- Innovative practice and advocacy programming
- Innovative research

**Pick Gold Registration to add Annual Meeting
On Demand to your single registration rate!**

Register Today at AAN.com/view/AM16

* Skills Workshops, Maintenance of Certification Exam Preparation Course, Between Venus and Mars: How Great Leadership Adopts Traits from the Best of Both Genders, Improving Your Leadership Skills: A Practical Approach, Women in Leadership, Research Career Development Symposium, The Most Important Tool in Your Black Bag: Gallup StrengthsFinder™ Assessment I & II, Continuum® Test Your Knowledge: A Multiple-choice Question Review I & II, Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients I & II, and Genomic Neurology Workshop: Developing Practical Knowledge of Tools and Concepts Through Case Studies I & II, are not included in the Annual Meeting registration price. These courses require pre-registration, may have a separate registration fee, and are subject to closure due to reaching maximum capacity.



AAN
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The AAN Annual Meeting: Experience the Excellence

More than a meeting: it's an experience! For 2016, we're building on what we do best, adding enhancements that will offer a truly innovative learning environment for delivering the best education, science, and networking opportunities in all of neurology.

Experience an ALL-NEW Meeting!

Experience Value with Annual Meeting Registration

You asked and we listened! A new single registration rate* provides an exceptional value at the world's largest gathering of neurologists. Your single registration rate is your ticket to everything the Annual Meeting has to offer: top-tier education, breakthrough science, innovative practice and advocacy programming, not-to-be-missed social events, and much more—all week long and at no additional cost to you!

Experience Exceptional Education Programming

Choose from more than 230 education courses led by expert faculty from across the globe covering a wide variety of topics.

Most* Courses Included with Annual Meeting Registration

Based on your feedback, most* education courses are now included with your registration fee and do not require pre-registration for individual* programs. In addition, all courses now take place in two-hour increments, allowing you to better tailor your learning experience to the topics of most interest to you. Visit the Itinerary Planner online after you register to quickly and easily add courses to your schedule.

New Two-Hour Course Format

Educational theory research suggests that learners pay attention and learn better in short amounts of time rather than long sessions. That's why we've re-tooled this year's education program to offer most courses in two-hour increments. Popular half-day and full-day programs have been broken up into 2-hour topic segments, allowing you to better tailor your learning experience to the topics of most interest to you.

Experience Innovative Research—Every Day

The popular Scientific Program includes a variety of sessions covering hot topics, critical issues, and latest scientific highlights in addition to an anticipated 2,700+ cutting-edge abstracts presented in poster and platform sessions throughout the week.

Scientific Program Highlights:

- ▶ Seven plenary sessions—one each day, beginning Friday evening
- ▶ Six poster sessions—one per day beginning Saturday
- ▶ Integrated Neuroscience Session topics provide an in-depth look into research highlights around a subspecialty concentration
- ▶ Invited Science Sessions will highlight cutting-edge research presented at various neurology subspecialty conferences





Experience Ways to Connect and Thrive

Experiential Learning Areas will feature novel ways to connect and thrive. These areas will be open Friday through Thursday, positioned throughout the convention center, and offer dynamic and interactive learning opportunities designed to continue the learning outside of a traditional classroom. Areas include:

Learning Lab

Get connected with exclusive AAN resources such as checking out online learning programs, reviewing your transcript in NeuroTracker™, and earning CME with Annual Meeting On Demand or *Continuum*®.

Real World of Neurology

Get the tools and information you need to increase your value in your current practice setting.

Health & Wellness: Taking Care of Yourself So That You Can Take Care of Others!

A combination of lectures, presentations, and exercises will get you inspired, motivated, and educated about the importance of taking care of your mental and physical health.

Navigating Your Career: All Aboard!

Learn about career development at every stage: from “choosing a track,” to “staying on track,” to “changing tracks” in your career. This area has something for everyone.

Excitement of Discovery

Experience the exciting research discoveries that have led to meaningful changes in how you practice neurology.

I Talks

Dynamic, one-hour programs will promote innovation, audience participation, and interaction.

What Is Not Included with Annual Meeting Registration?

For more information on what is not included with your new single registration rate, see [page 7](#) ».

**Skills Workshops, Maintenance of Certification Exam Preparation Course, Between Venus and Mars: How Great Leadership Adopts Traits from the Best of Both Genders, Improving Your Leadership Skills: A Practical Approach, Women in Leadership, Research Career Development Symposium, The Most Important Tool in Your Black Bag: Gallup StrengthsFinder™ Assessment I & II, Continuum® Test Your Knowledge: A Multiple-choice Question Review I & II, Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients I & II, and Genomic Neurology Workshop: Developing Practical Knowledge of Tools and Concepts Through Case Studies I & II, are not included in the Annual Meeting registration price. These courses require pre-registration, may have a separate registration fee, and are subject to closure due to reaching maximum capacity.*



Plan Your Meeting Experience

Registration

The 68th AAN Annual Meeting registration site makes planning your week as easy as 1-2-3:

- 1 Register and book your hotel quickly and easily online—enjoy the convenience and value of the **NEW single registration rate!**
- 2 Use the convenient pages starting on [page 12 »](#) of this book to plan your week, incorporating your favorite education programs, scientific sessions, and other Annual Meeting social and informational events—and even relaxation breaks! After you complete your registration, use the Itinerary Planner available within the registration site to customize your schedule.
- 3 Show up and experience the excellence of the world's largest gathering of neurologists!

Ways to Register

Online

AAN.com/view/register

Telephone

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

Registration Deadline: March 24, 2016

Registrations received after March 24, 2016, will be processed at a higher rate.

Hotel Reservation Deadline: February 24, 2016

Questions

Online: aanam.cmrushelp.com

To obtain a registration form or to pay by check, please contact CMR. Registration forms will only be accepted for check payments.

Registration Options

Annual Meeting Registration

The new single meeting registration fee is mandatory for all registrants and is determined by AAN member type.

Gold Registration

Upgrade your meeting registration to include a copy of Annual Meeting On Demand.

**Skills Workshops, Maintenance of Certification Exam Preparation Course, Between Venus and Mars: How Great Leadership Adopts Traits from the Best of Both Genders, Improving Your Leadership Skills: A Practical Approach, Women in Leadership, Research Career Development Symposium, The Most Important Tool in Your Black Bag: Gallup StrengthsFinder™ Assessment I & II, Continuum® Test Your Knowledge: A Multiple-choice Question Review I & II, Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients I & II, and Genomic Neurology Workshop: Developing Practical Knowledge of Tools and Concepts Through Case Studies I & II, are not included in the Annual Meeting registration price. These courses require pre-registration, may have a separate registration fee, and are subject to closure due to reaching maximum capacity.*

Ways to Save

- ▶ Renew your AAN membership or join the AAN for maximum registration savings. Visit AAN.com/view/membership.
- ▶ Register by the March 24, 2016, early registration deadline to avoid increased rates after this date.

2016 AAN Annual Meeting Fees

Note: All prices in US dollars, on-site rates will be in Canadian dollars	Early Registration (Before March 24, 2016)	Late Registration (After March 24, 2016)	Early Gold Registration (Before March 24, 2016)	Late Gold Registration (After March 24, 2016)
Students	\$0	\$0	\$199	\$199
Senior/Honorary	\$0	\$0	\$399	\$399
Junior	\$245	\$335	\$444	\$534
Non-neurologist Member ¹	\$395	\$545	\$594	\$744
Neurologist Member ²	\$695	\$955	\$1,094	\$1,354
Nonmember	\$1,195	\$1,635	\$1,794	\$2,234

¹Business Administrator, Non-neurologist Clinician, Nurse Practitioner/Physician Assistant, Research Scientist, Research Coordinator, Research Scientist Fellow

²Active, Associate, Fellow, Early Career

Additional Information

Changes in Education Programs

Most* education courses are now included with your registration fee and do not require pre-registration. Visit the online Itinerary Planner to add courses to your schedule at your convenience.

Cancelled or Closed Programs

Education programs may be closed due to reaching maximum capacity or cancelled due to insufficient enrollment. In the event of cancellation, registration for the cancelled course will be fully refunded for courses that have a separate registration fee. The AAN is not responsible for airfare, hotel, or other costs incurred by participants in the event of program or registration closure or cancellation.

Cancellations/Refunds of Registration

Until March 24, 2016—Refund less \$50 administrative fee

March 25–April 7, 2016—Refund less \$100 administrative fee

After April 8, 2016—No refund

- ▶ All cancellations must be submitted in writing to aanam.cmrushelp.com or faxed to (415) 293-4071.
- ▶ No-shows will not receive a refund.
- ▶ Name substitutions are not permitted.
- ▶ No refunds will be processed for amounts of \$20 or less.

Special Accommodations Deadline: March 24, 2016

The Vancouver Convention Centre and the AAN strive to accommodate all visitors. Information booths, designated parking, and assisted listening devices are available. If you require special accommodation to attend the Annual Meeting, submit your request while registering online or contact Laurie Dixon no later than March 24, 2016, at ldixon@aan.com or (612) 928-6154.

Kosher meals may be provided at any breakfast or lunch and must be arranged on or before March 24, 2016, through the registration website or by contacting AAN Registration/CMR at aanam.cmrushelp.com, (800) 676-4226, or (415) 979-2283. There is a \$50 surcharge per kosher meal. On-site requests cannot be accommodated. There are no refunds for kosher meals.

Group Registration Deadline: March 30, 2016

Group registrations are those in which 10 or more individuals' fees are paid for with one check or credit card. Special registration instructions are available online AAN.com/view/register or by contacting CMR's Group Registration at (800) 676-4226 (US/Canada) or (415) 979-2283 (International) or aanam.cmrushelp.com. See [page 141](#) » for housing information.

What Is Not Included with Annual Meeting Registration?

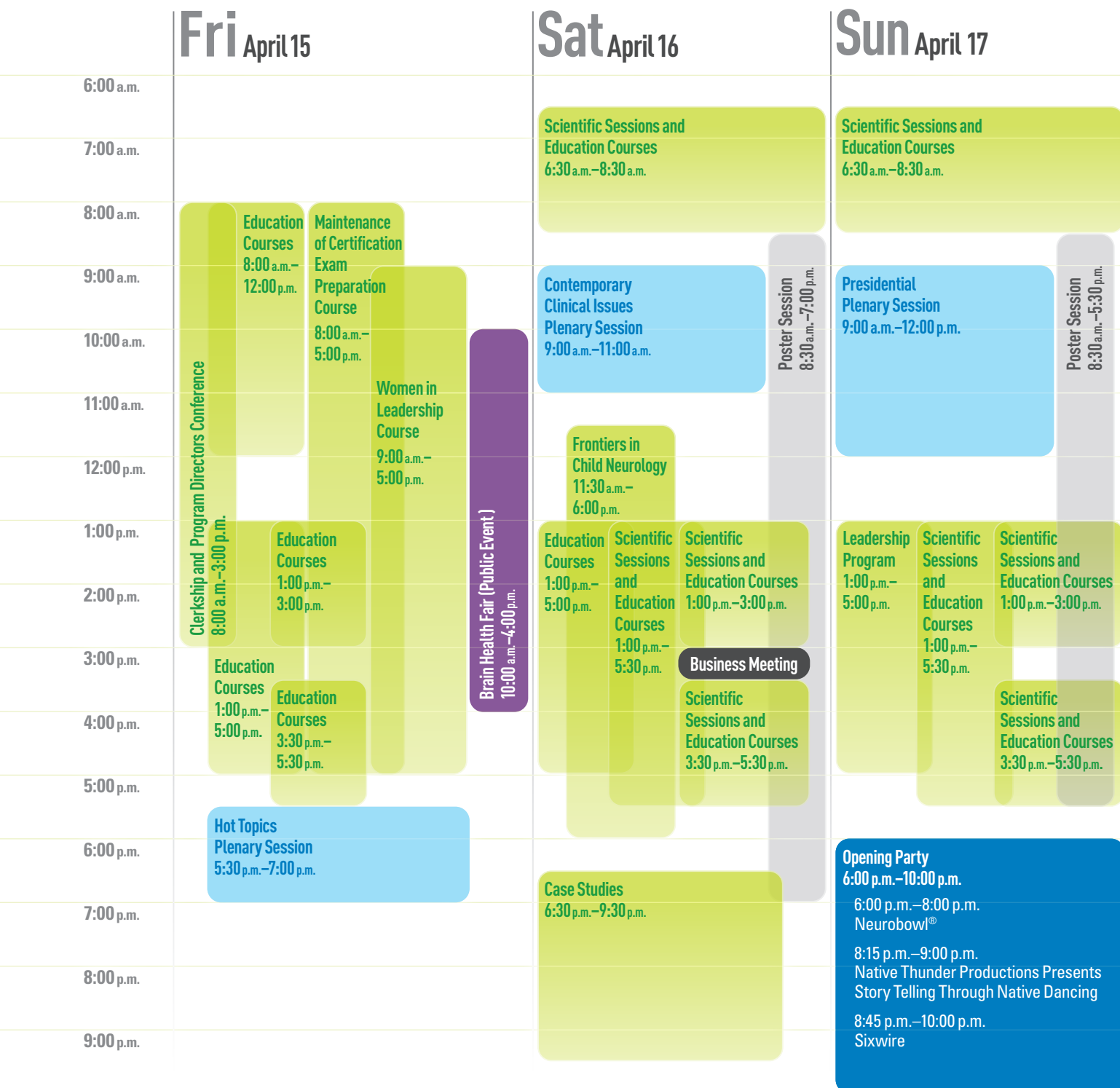
While the new single registration rate* provides an exceptional value, the following few programs are not included, require a separate registration fee, and are subject to closure due to reaching maximum capacity. For information on pricing please visit AAN.com/view/register.

- C3 Maintenance of Certification Exam Preparation Course
- C4 Research Career Development Symposium: How to Be Successful in Academic Neuroscience
- C5 Women in Leadership
- C11 Neurophysiologic Intraoperative Monitoring Skills Workshop
- C38 Sports Concussion Skills Workshop I
- C41 Neuro-ophthalmology and Neurovestibular Exam Lab Skills Workshop
- C49 Sports Concussion Skills Workshop II
- C82 Between Mars and Venus: How Great Leadership Adopts Traits from the Best of Both Genders
- C83 Epilepsy Skills Workshop
- C112 Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients I
- C115 Improving Your Leadership Skills: A Practical Approach
- C116 Clinical Uses of Botulinum Toxin for Dystonia Skills Workshop
- C126 Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients II
- C141 *Continuum*® Test Your Knowledge: A Multiple-choice Question Review I
- C147 Clinical Usefulness of Botulinum Toxin for Spasticity Skills Workshop
- C151 EMG Skills Workshop
- C155 *Continuum*® Test Your Knowledge: A Multiple-choice Question Review II
- C180 Genomic Neurology Workshop: Developing Practical Knowledge of Tools and Concepts Through Case Studies I
- C188 Clinical Uses of Botulinum Toxin for Headache Skills Workshop
- C189 Neuromuscular Bedside Rounds Skills Workshop
- C193 Genomic Neurology Workshop: Developing Practical Knowledge of Tools and Concepts Through Case Studies II
- C223 Neuromuscular Ultrasound Skills Workshop
- C233 The Most Important Tool in Your Black Bag: Gallup StrengthsFinder™ Assessment I
- C234 The Most Important Tool in Your Black Bag: Gallup StrengthsFinder™ Assessment II

Meeting-at-a-Glance

Experience the New Schedule. Experience New Opportunities.

The new, condensed timeframe of the 2016 Annual Meeting offers countless opportunities for meaningful changes. Most education courses will take place in 2-hour increments; poster sessions will begin Saturday and run through Thursday; Plenary Sessions will take place daily; and much more!





"I always go to the meeting! I'm an academic in neurology and the Annual Meeting has very good updates and great education. It is also well done. The AAN Annual Meeting is the premier meeting in neurology in the world."

Patricia Coyle, MD, Stony Brook, NY

Mon April 18

Scientific Sessions and Education Courses
6:30 a.m.–8:30 a.m.

Controversies in Neurology Plenary Session
9:00 a.m.–11:30 a.m.

Poster Session
8:30 a.m.–7:00 p.m.

Leadership Program
1:00 p.m.–5:00 p.m.

Scientific Sessions and Education Courses
1:00 p.m.–5:30 p.m.

Scientific Sessions and Education Courses
1:00 p.m.–3:00 p.m.

Scientific Sessions and Education Courses
3:30 p.m.–5:30 p.m.

Exhibit Hall
4:30 p.m.–6:30 p.m.

Tue April 19

Scientific Sessions and Education Courses
6:30 a.m.–8:30 a.m.

2016 AAN Run/Walk for Brain Research
6:30 a.m.–8:30 a.m.

Frontiers in Neuroscience Plenary Session
9:00 a.m.–11:30 a.m.

Awards Luncheon
11:30 a.m.–1:00 p.m.

Exhibit Hall Open
11:00 a.m.–4:00 p.m.

Leadership Program
1:00 p.m.–5:00 p.m.

Scientific Sessions and Education Courses
1:00 p.m.–5:30 p.m.

Scientific Sessions and Education Courses
1:00 p.m.–3:00 p.m.

Scientific Sessions and Education Courses
3:30 p.m.–5:30 p.m.

Wed April 20

Scientific Sessions and Education Courses
6:30 a.m.–8:30 a.m.

Clinical Trials Plenary Session
9:00 a.m.–11:00 a.m.

Poster Session
8:30 a.m.–7:00 p.m.

Exhibit Hall Open
11:00 a.m.–4:00 p.m.

Leadership Program
1:00 p.m.–5:00 p.m.

Scientific Sessions and Education Courses
1:00 p.m.–5:30 p.m.

Scientific Sessions and Education Courses
1:00 p.m.–3:00 p.m.

Scientific Sessions and Education Courses
3:30 p.m.–5:30 p.m.

Thu April 21

Scientific Sessions and Education Courses
6:30 a.m.–8:30 a.m.

Neurology Year in Review Plenary Session
9:00 a.m.–11:30 a.m.

Poster Session
8:30 a.m.–5:30 p.m.

Exhibit Hall Open
11:00 a.m.–3:00 p.m.

Scientific Sessions and Education Courses
1:00 p.m.–5:30 p.m.

Scientific Sessions and Education Courses
1:00 p.m.–3:00 p.m.

Closing Party Happy Hour
5:30 p.m.–7:00 p.m.

Understanding the Program Listings

Course Listing Indicators

Course Numbers Indicate Program Types

- C** Course
- I** Integrated Neuroscience Session (scientific session combining invited speakers, data blitz presentations, and poster discussion)
- P** Poster Session (a hall of posters on a variety of topics)
- S** Scientific Platform Session (didactic session featuring abstracts)

Course Feature Icons

-  A registration fee is required
-  The program is one of the **AAN Leadership Development** sessions
-  The program is one of the **I Talk** sessions
-  The program is part of the **Experiential Learning Area** sessions
-  The course is part of the **Clinical Research** track
-  The course is part of a **Subspecialty in Focus** track

Recommended courses for Advance Practice Providers can be found online at AAN.com/view/SearchAM. The Annual Meeting Program Search allows you to select the recommended audience to find which programs may be of interest to you.

Program Tracks

To assist in your course planning, we've designed program tracks consisting of pre-selected courses of interest to academic neurologists or those with subspecialty interests. Refer to the Meeting Program schedule for specific times.

Clinical Research Track

This track offers suggested programs geared toward academic neurologists early in the development of a clinical research career or who are considering one.

Clinical Research Track:

- C4**   Research Career Development Symposium: How to Be Successful in Academic Neuroscience (*registration required*) 121

- C8**  Clinical Research: Introduction and Methods . . . 122
- C14**  Clinical Research: Drug Development and Clinical Trials 123
-  Futures in Clinical Research Luncheon

Subspecialty in Focus Tracks

The Subspecialty in Focus Track is a series of seven special, intensive topic-specific tracks designed for subspecialists, combining an education course with an Integrated Neuroscience Session.

Subspecialty in Focus—Movement Disorders

- C15**  Redefining Parkinson's Disease: Challenging the Past and Preparing for the Future 73
- I1**  Redefining Parkinson's Disease: Novel Approaches to Understanding Its Mechanisms and Developing Treatments 130

Subspecialty in Focus—Headache

- C59**  Interventional Treatment of Migraine and Other Headache Disorders 68
- I3**  New and Emerging Therapeutic Options in Migraine and Other Headache Disorders 130

Subspecialty in Focus—Cerebrovascular Disease

- C95**  Stroke Team Action Therapy (STAT): Current State of the Art 41
- I6**  Future Directions and Challenges in Stroke Team Action Therapy (STAT) 130

Subspecialty in Focus—Sleep

- C127**  Sleep Across the Lifecycle: What Neurologists Need to Know 128
- I9** Sleep, Clocks, and Alzheimer's Disease 131

Subspecialty in Focus—Neuro Critical Care

- C166**  Acute Neurological Emergencies 90
- I11**  Neurocritical Care and Neuroscience Crossroads: From Bench To Bedside 131

Subspecialty in Focus—Alzheimer's Disease

- C167**  Current State of Alzheimer's Disease Imaging Biomarkers and the Road Ahead 36
- I12**  Amyloid and Beyond: From Bench to Bedside . . . 131

Subspecialty in Focus—Neuro-ophthalmology/Neuro-otology

- C202**  The Eyes and The Ears of Traumatic Brain Injury . . 106
- I13**  Sports-related Concussion: Vision and Vestibular Insights. 131

Schedule Planning Forms

Use the convenient forms on the following pages to develop your Annual Meeting schedule, incorporating your favorite education programs, scientific sessions, and other Annual Meeting social and informational events. After you complete your registration, use the Itinerary Planner available within the registration site to customize your schedule.



Friday, April 15

Plan Your Experience

8:00 a.m.–12:00 p.m.

- C1 Resident Basic Science I: Neuropathology120

8:00 a.m.–3:00 p.m.

- C2 Clerkship and Program Directors Conference120

8:00 a.m.–5:00 p.m.

- C3  Maintenance of Certification
Exam Preparation Course
(registration required) 52
- C4   Research Career Development Symposium:
How to Be Successful in Academic Neuroscience
(registration required)121

9:00 a.m.–5:00 p.m.

- C5   Women in Leadership
(registration required)111

1:00 p.m.–3:00 p.m.

- C6 ICD-10-CM: How to Optimize for Accurate
Diagnosis and Reimbursement112
- C7 Applications of Teleneurology: General112
- C8  Clinical Research: Introduction and Methods .122

1:00 p.m.–5:00 p.m.

- C9 Lost in Transition113
- C10 Resident Basic Science II: Neuroanatomy122
- C11  Neurophysiologic Intraoperative
Monitoring Skills Workshop
(registration required) 46

3:30 p.m.–5:30 p.m.

- C12 Advanced Neurologic Coding113
- C13 Applications of Teleneurology: Telestroke113
- C14  Clinical Research:
Drug Development and Clinical Trials123

5:30 p.m.–7:00 p.m.

Hot Topics Plenary Session

Frontiers in Child Neurology: Cultivating Careers, Transitioning Care, and Highlighting Scientific Development Saturday, April 16, 11:30 a.m.–6:00 p.m.

NEW!

This new half-day program will focus on presenting the latest science in pediatric neurology and provide a unique forum for attendees to engage with experts about pursuing career opportunities in the subspecialty.

Highlights

- **Careers in Child Neurology Luncheon—Ask the Experts**
Co-Chairs: Ann H. Tilton, MD, FAAN, and Rujuta Bhatt, MD
Medical students and residents who are considering a career as a child neurologist will get a unique opportunity to meet with the experts and have their questions answered.
- **Transitioning Patients from the Child Neurologist to the Adult Neurologist**
Coordinators: Shafali Jeste, MD, and Rebecca K. Lehman, MD
Invited speakers and a panel discussion will focus on successes and challenges.
- **Scientific Presentations**
A traditional scientific session format, followed by discussion.

- **Poster Blitz**
Poster presenters will highlight their research in five minutes or less.
- **Networking Reception**
The program will conclude with a wine and cheese reception allowing attendees an opportunity to talk with presenters, network, and review posters.



Annual Meeting

My Friday

- Registration fee required
- AAN Leadership Development
- I Talk session

- Experiential Learning Area
- Clinical Research track
- Subspecialty in Focus track

Time _____ to _____

Program # _____ Program Name _____

11:30 a.m.–1:00 p.m. Lunch

Time _____ to _____

Program # _____ Program Name _____

Time _____ to _____

Program # _____ Program Name _____

5:30 p.m.–7:00 p.m. Hot Topics Plenary Session

EXPERIENTIAL LEARNING AREA

LOCATION:
West Level 1

Real World of Neurology

Access the tools and information you need to increase your value in your current practice setting by visiting the AAN's Real World of Neurology area.

- Learn how to participate in the AAN Neurology Compensation & Productivity Survey and how to compare yourself to your peers using the customizable results dashboard
- Navigate new payment pathways under MACRA and learn how this recently passed legislation could impact neurologists
- Meet with subject matter experts for informal Q&A on these featured daily topics:
 - Neurology Business Strategies
 - Solo/Small Practitioners
 - ICD-10-CM
 - Advance Care Planning
 - PQRS
 - Telemedicine

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6:30 a.m.–8:30 a.m.

- C15**  Redefining Parkinson's Disease: Challenging the Past and Preparing for the Future 73
- C16** How to Interpret Sleep Studies 126
- C17** Paroxysmal Movement Disorders 73
- C18** Multiple Sclerosis Overview: Basic and Translational Science 81
- C19** Peripheral Neuropathy I 91
- C20** The Palliative Care Guide in Neurology: What You Must Know About Neuro-oncology . . . 98
- C21** Neuro Flash: Approach to Acute CNS Infections . . 71
- C22** Career Development for Clinician Educators. . . 123
- C23** Borderlands of Neurology and Internal Medicine: Chalk Talk. 53
- C24** Clinical EEG I 47
- C25** Update on Medical Management of Stroke 40
- C26** Leadership in Neurology: Be a Champion for Your Patients and Protector of Your Specialty with Payers, Policymakers, and the Public. 114
- C27** Lumbar Radiculopathy, Lumbar Spinal Stenosis, Low Back Pain, and Post-laminectomy Syndrome . 109
- C28** Higher Cortical Visual Disorders: Case-based Review. 101
Scientific Platform Sessions 130

8:30 a.m.–7:00 p.m.

- P1** Poster Session I 130

9:00 a.m.–11:00 a.m.

Contemporary Clinical Issues Plenary Session

11:30 a.m.–6:00 p.m.

Frontiers in Child Neurology: Cultivating Careers, Transitioning Care, and Highlighting Scientific Developments 12

1:00 p.m.–2:00 p.m.

 Ask Me Anything with Dr. Robert Gross, Editor-in-Chief of *Neurology*

1:00 p.m.–3:00 p.m.

- C29** Assessment of Rapidly Progressive Dementias and tRelated Neurologic Conditions I 32
- C30** Chronic Migraine Education Program I 67
- C31** Hyperkinetic Movement Disorders: Videodiagnosis and Treatment 74
- C32** Multiple Sclerosis Overview: Clinical Advances I. . 81

- C33** Peripheral Neuropathy II. 92
- C34** Case Studies: Neurologic Consultations in Cancer Patients I . . . 99
- C35** Differential Diagnosis of Neurologic Infections . . . 71
- C36** Neuroimaging for the General Neurologist: Spine and Peripheral Nerve I 54
- C37** Clinical EEG II 47
- C38**  Sports Concussion Skills Workshop I (*registration required*) 86
- C39** Autoimmune Neurology I 54
Scientific Platform Sessions 130

1:00 p.m.–5:00 p.m.

- C40** Resident Basic Science III: Neuropharmacology . . 123

1:00 p.m.–5:30 p.m.

- C41**  Neuro-ophthalmology and Neurovestibular Exam Lab Skills Workshop (*registration required*) 102
- I1**  Redefining Parkinson's Disease: Novel Approaches to Understanding Its Mechanisms and Developing Treatments 130
- I2** Stroke in the Elderly and Young: Challenges for the Next Decade 130

3:00 p.m.–3:30 p.m.

AAN/AANI Business Meeting

All members are invited to attend the meeting to take part in the Academy business.

3:30 p.m.–5:30 p.m.

- C42** Assessment of Rapidly Progressive Dementias and Related Neurologic Conditions II. 32
- C43** Chronic Migraine Education Program II 67
- C44** Multiple Sclerosis Overview: Clinical Advances II . . 81
- C45** Peripheral Neuropathy III 92
- C46** Case Studies: Neurologic Consultations in Cancer Patients II. . . 99
- C47** Neuroimaging for the General Neurologist: Spine and Peripheral Nerve II. 54
- C48** Clinical EEG III 48
- C49**  Sports Concussion Skills Workshop II (*registration required*) 86
- C50** Autoimmune Neurology II 55
Scientific Platform Sessions 130

6:00 p.m.–9:00 p.m.

- Faculty and Trainee Reception 132

6:30 p.m.–9:30 p.m.

- C51 Case Studies in Behavioral Neurology:
Focus on Frontotemporal Degeneration 32
- C52 Case Studies: Challenging Headache Cases 68
- C53 Case Studies: Unusual Movement Disorders 74
- C54 Case Studies: Multiple Sclerosis 82
- C55 Case Studies: Unusual Diagnostic and
Management of Cases in Neuromuscular Disease . 93
- C56 Test Your Knowledge:
A Case-based Approach to Neuroimaging 55
- C57 Case Studies: How to Analyze Spells by Video-EEG . 48
- C58 Case Studies in the ICU 87

7:00 p.m.–10:00 p.m.

Industry Therapeutic Updates

Industry-sponsored, non-CME programs will be offered and are open to attendees at no charge. They will provide an opportunity for pharmaceutical companies, device companies, or other neurologic-related organizations to share information regarding their current therapies and projects in the pipeline in accordance with standards set for industry by the FDA.

My Saturday

Time _____ to _____

Program # _____ Program Name _____

9:00 a.m.–11:00 a.m. Contemporary Clinical Issues Plenary Session

11:30 a.m.–1:00 p.m. Lunch

Time _____ to _____

Program # _____ Program Name _____

3:00 p.m.–3:30 p.m. AAN/AANI Business Meeting

Time _____ to _____

Program # _____ Program Name _____

Time _____ to _____

Program # _____ Program Name _____

6:30 a.m.–8:30 a.m.

C59	SIP Interventional Treatment of Migraine and Other Headache Disorders	68
C60	Dementia Update: Diagnostic Advances	33
C61	Morning Report: Multiple Sclerosis	82
C62	Genetics in Neurology Overview	56
C63	Improving Patients' and Families' Satisfaction and Experiences with Neurologic Care	114
C64	Child Neurology I	44
C65	Infections of the Nervous System I	72
C66	Movement Disorders for the General Neurologist I	74
C67	Therapy of Neuromuscular Disease	93
C68	REM Sleep Behavior Disorder	126
C69	Eye Movement Disorders: A Systematic Approach to the Evaluation of Diplopia	102
C70	Update on Endovascular Treatment of Cerebrovascular Diseases	40
	Scientific Platform Sessions	130

8:30 a.m.–5:30 p.m.

P2	Poster Session II	130
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9:00 a.m.–12:00 p.m.

Presidential Plenary Session

Presidential Lecture

Brent C. James, MD, Salt Lake City, UT

George C. Cotzias Lecture

Endowed by Roche Pharmaceuticals.

Antibody Mediated Disorders of the Synapse

Josep O. Dalmau, MD, PhD, Barcelona, Spain

Sidney Carter Award in Child Neurology

Endowed by an Anonymous Donor.

Targeted Treatments for Fragile X Syndrome

Elizabeth M. Berry-Kravis, MD, PhD, Chicago, IL

Robert Wartenberg Lecture

What Can We Do for the Patient with

Pharmacoresistant Epilepsy

Jerome Engel, Jr., MD, PhD, FAAN, Los Angeles, CA

1:00 p.m.–3:00 p.m.

C71	Dementia Update: Imaging Modalities and CTE	33
C72	Neurology Update I	56
C73	Quality Improvement in Practice	115
C74	Child Neurology II	45
C75	Myelopathies I	107
C76	Infections of the Nervous System II	72
C77	Movement Disorders for the General Neurologist II	75

C78	Evaluation and Management of Autonomic Disorders I	93
C79	Emergency Neurology Topics: Status Epilepticus and Pediatric Neurology Emergencies	87
C80	Now You See It, Now You Know It—Pathognomonic Neuro-ophthalmology Findings	103
C81	Functional Neurologic Disorders I	56
	Scientific Platform Sessions	130

1:00 p.m.–5:00 p.m.

C82	GO Between Mars and Venus: How Great Leadership Adopts Traits from the Best of Both Genders (<i>registration required</i>)	115
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1:00 p.m.–5:30 p.m.

C83	S Epilepsy Skills Workshop (<i>registration required</i>)	48
I3	SIP New and Emerging Therapeutic Options in Migraine and Other Headache Disorders	130
I4	Advances in Acquired and Genetic Muscle Diseases	130
I5	Sex-related Factors in Neurological Disease	130

3:30 p.m.–5:30 p.m.

C84	Dementia Update: Non-Alzheimer Dementias and Dementia Management	34
C85	Multiple Sclerosis Essentials	82
C86	Neurology Update II	57
C87	Child Neurology III	45
C88	Myelopathies II	107
C89	Infections of the Nervous System III	72
C90	Movement Disorders for the General Neurologist III	75
C91	Evaluation and Management of Autonomic Disorders II	94
C92	Emergency Neurology Topics: Acute/Subacute Weakness and Subarachnoid Hemorrhage	87
C93	Education Research Program	124
C94	Functional Neurologic Disorders II	57
	Scientific Platform Sessions	130

6:00 p.m.–10:00 p.m.

	Opening Party	134
	6:00 p.m.–8:00 p.m. Neurobow!®	
	8:15 p.m.–9:00 p.m. Native Thunder Productions Presents Story Telling Through Native Dancing	
	8:45 p.m.–10:00 p.m. Sixwire	

My Sunday

- Registration fee required
- AAN Leadership Development
- I Talk session

- Experiential Learning Area
- Clinical Research track
- Subspecialty in Focus track

Time _____ to _____

Program # _____ Program Name _____

9:00 a.m.–12:00 p.m. Presidential Plenary Session

11:30 a.m.–1:00 p.m. Lunch

Time _____ to _____

Program # _____ Program Name _____

Time _____ to _____

Program # _____ Program Name _____

6:00 p.m.–10:00 p.m.

6:00 p.m.–8:00 p.m.
Neurobow!®

Opening Party

8:15 p.m.–9:00 p.m.

Native Thunder Productions Presents Story Telling Through Native Dancing

8:45 p.m.–10:00 p.m.

Sixwire

EXPERIENTIAL LEARNING AREA



 **LOCATION:**
West Level 1



Visit the Annual Meeting's Learning Lab to get connected with exclusive AAN resources.

- Review your transcript in NeuroTracker™
- Experience convenient online learning programs such as NeuroLearnSM and NeuroSAE®
- Discover how to earn CME with Annual Meeting On Demand, *Neurology*®, or *Continuum*®
- Explore topics such as 'MOC Myths' at our HeadTalks stage
- MORE**

6:30 a.m.–8:30 a.m.

C95	SIF Stroke Team Action Therapy (STAT): Current State of the Art	41
C96	Neurotoxicology	58
C97	Severe TBI: From ICU to Rehabilitation	108
C98	Cerebrovascular Disease I: Prevention	41
C99	Morning Report: Memory Disorders	34
C100	Neuro Flash: Epilepsy	49
C101	Controversies in Multiple Sclerosis Therapy.	83
C102	Neuro-oncologic Emergencies	100
C103	Idiopathic Intracranial Hypertension	103
	Scientific Platform Sessions	130

8:00 a.m.–9:00 a.m.

I Live Intraoperative Monitoring

8:30 a.m.–7:00 p.m.

P3	Poster Session III.	130
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9:00 a.m.–11:30 a.m.

Controversies in Neurology Plenary Session

11:30 a.m.–12:30 p.m.

State Society Leadership Roundtable

Leadership representatives of state neurological societies are invited to discuss challenges, strategies, and practices related to state neurosociety creation and maintenance. Discussion will be facilitated by Academy staff. Participants will learn from the experiences of established societies and be introduced to the resources available from the Academy.

1:00 p.m.–2:00 p.m.

I Webs, Apps, and Social Media:
There's the AAN for That

1:00 p.m.–3:00 p.m.

C104	Clinical Approach to Muscle Disease I	94
C105	Therapy in Neurology I	58
C106	Common Spine Disorders I: Evaluation	108
C107	Cerebrovascular Disease II: Hemorrhagic Stroke	41
C108	Nonmotor Manifestations of Parkinson's Disease I	76
C109	Pediatric MS: Diagnosis and Treatment	83
C110	Core Concepts in Pain Management I: Refractory Neuropathic Pain—Practical Pharmacologics, Advances in Neuromodulation, and a Balanced look at Cannabinoids	110
C111	Sleep for the Practicing Neurologist I: Can't Fall Asleep—Insomnia, RLS and Related Disorders	127

C112	Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients I (<i>registration required</i>).	116
C113	Humanism in Medicine, Humanizing Medicine, and the Role of Education	124
C114	Contemporary Ethical Issues	116
	Scientific Platform Sessions	130
	Section Topic Controversies	130

1:00 p.m.–5:00 p.m.

C115	GS Improving Your Leadership Skills: A Practical Approach (<i>registration required</i>).	117
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1:00 p.m.–5:30 p.m.

C116	S Clinical Uses of Botulinum Toxin for Dystonia Skills Workshop (<i>registration required</i>).	76
I6	SIF Future Directions and Challenges in Stroke Team Action Therapy (STAT)	130
I7	The Human Connectome: Implications for Clinical Neurology.	130
I8	Emerging Technologies for Neurological Research and Care: #Emerging-Tech #Neurologist @AAN	130

1:30 p.m.–3:00 p.m.

AAN/ABPN MOC Information Session

3:30 p.m.–5:30 p.m.

C117	Clinical Approach to Muscle Disease II	94
C118	Therapy in Neurology II	58
C119	Common Spine Disorders II: Treatment	108
C120	Cerebrovascular Disease III: Acute Ischemic Stroke	42
C121	Emotional Communication: Chalk Talk	34
C122	Nonmotor Manifestations of Parkinson's Disease II	77
C123	Status Epilepticus	49
C124	Core Concepts in Pain Management II: Safe Opioid Prescribing—Practical Considerations, Unintended Consequences, and Legal Issues	110
C125	Sleep for the Practicing Neurologist II: Sleep Duration, CNS Hypersomnias, and Treating Physician Fatigue.	127
C126	Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients II (<i>registration required</i>).	117
	Scientific Platform Sessions	130

4:30 p.m.–6:30 p.m.

	Exhibit Hall Opening Reception	134
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My Monday

📍 Registration fee required
👤 AAN Leadership Development
🗣️ I Talk session

🧠 Experiential Learning Area
🔬 Clinical Research track
📋 Subspecialty in Focus track

Time _____ to _____

Program # _____ Program Name _____

9:00 a.m.–11:30 a.m. Controversies in Neurology Plenary Session

11:30 a.m.–1:00 p.m. Lunch

Time _____ to _____

Program # _____ Program Name _____

Time _____ to _____

Program # _____ Program Name _____

EXPERIENTIAL LEARNING AREA



Health & Wellness

Taking care of yourself so that you can take care of others!



LOCATION:
West Level 2

A combination of lectures, presentations, and exercise will get you inspired, motivated, and educated about the importance of taking care of your mental and physical health. Visit the Health & Wellness area each day to recharge your mental and physical self!

- ✔ Learn about the importance of interventions—such as exercise and nutrition—for well-being and treatment for patients
- ✔ Healthy snacks
- ✔ Free chair massage
- ✔ Participate in fun and functional mental and physical fitness breaks, including yoga and guided meditation sessions
- ✔ Daily step challenges with a chance to win prizes
- ✔ Mothers room
- ✔ **MORE**

AAN
●●●●● 2016
Annual Meeting

6:30 a.m.–8:30 a.m.

2016 AAN Run/Walk for Brain Research . . . 134

6:30 a.m.–8:30 a.m.

- C127** Sleep Across the Lifecycle:
What Neurologists Need to Know 128
- C128** Management of Migraine and
Psychiatric Comorbidities 69
- C129** Neurologic Intensive Care I 88
- C130** Neuro-ophthalmology I 103
- C131** Practical Legal Issues for Neurologists 118
- C132** Balance and Gait Disorders 77
- C133** Mild Cognitive Impairment:
Implications for Clinicians 35
- C134** Emerging Therapies in Epilepsy 50
- C135** Neuro Flash: Child Neurology 46
- C136** Controversies in Stroke Therapy 42
- Scientific Platform Sessions 130

8:00 a.m.–9:00 a.m.

Neurological Exam Tips and Tricks

8:30 a.m.–7:00 p.m.

P4 Poster Session IV 130

9:00 a.m.–11:30 a.m.

Frontiers in Neuroscience Plenary Session

The Cerebellar Cognitive Affective Syndrome:
Implications for Neurology and Psychiatry
Jeremy D. Schmahmann, MD, FAAN, Boston, MA

Harnessing Stem Cell Potential for Tissue Repair:
Reversing the Aging Process
Thomas A. Rando, MD, PhD, Stanford, CA

TBD
John Collinge, MD, FRCP
Queens Square London, United Kingdom

Analyzing Single Neurons from the
Human Cerebral Cortex
Christof Koch, PhD, Seattle, WA

From Perception to Pleasure:
Music and Its Substrates
Robert Zatorre, PhD, Montreal, QC, Canada

Unraveling the Cause of Multiple Sclerosis
David A. Hafler, MD, FAAN, New Haven, CT

11:00 a.m.–4:00 p.m.

Exhibit Hall

11:30 a.m.–1:00 p.m.

Awards Luncheon 135

1:00 p.m.–3:00 p.m.

- C137** Introduction to Primary Headache Disorders I . . . 69
- C138** Neurologic Intensive Care II 88
- C139** Neuro-ophthalmology II 104
- C140** Clinical Neurology for Advanced Practice Providers I . 118
- C141** *Continuum*® Test Your Knowledge:
A Multiple-choice Question Review I
(registration required) 59
- C142** Improving Accuracy of Dementia Diagnosis: Case
Studies with Both Imaging and Neuropathology . . 35
- C143** Small Fiber Neuropathies:
Sensory, Autonomic and Both I 94
- C144** Multiple Sclerosis Therapy: Symptom Management . 83
- C145** Circadian Rhythm Disorders 128
- C146** Neuroimaging for the General Neurologist: Brain I . 59
- C147** Clinical Usefulness of Botulinum Toxin
for Spasticity Skills Workshop
(registration required) 77
- C148** Precision Neurology:
The Promise and Perils of Whole Exome
Sequencing for Neurological Disorders 60
- C149** Sports Neurology: Non-concussion Overview I . . 89
- C150** Recent History: Shapers of Modern Neurology I . 125
- Scientific Platform Sessions 130
- Section Topic Controversies 130

1:00 p.m.–5:00 p.m.

- C233** The Most Important Tool in Your Black Bag:
Gallup StrengthsFinder™ Assessment I
(registration required) 118

1:00 p.m.–5:30 p.m.

- C151** EMG Skills Workshop: Basic
(registration required) 95
- I9** Sleep, Clocks, and Alzheimer's Disease 131
- I10** Remyelination and Repair in Multiple Sclerosis . . 131

3:30 p.m.–5:30 p.m.

- C152** Introduction to Primary Headache Disorders II . . 70
- C153** Neurologic Intensive Care III 89
- C154** Neuro-ophthalmology III 104
- C155** *Continuum*® Test Your Knowledge:
A Multiple-choice Question Review II
(registration required) 60
- C156** EEG in Children: Developmental Maturation,
Variants, Epilepsy Syndromes, and Identification
of Surgical Candidates 50

C157	Small Fiber Neuropathies: Sensory, Autonomic, and Both II	95
C158	The Dystonias: Diagnosis, Treatment, and Update on Causes	78
C159	Current Management of Incidental and Asymptomatic Cerebrovascular Lesions	43
C160	Hot Topics in Education (<i>tentative</i>)	
C161	Neuroimaging for the General Neurologist: Brain II .	60
C162	Precision Neurology: Precision Directed Genetic Therapeutics	61
C163	Clinical Neurology for Advanced Practice Providers II .	119
C164	Recent History: Shapers of Modern Neurology II .	125
C165	Sports Neurology: Non-concussion Overview II . .	89
	Scientific Platform Sessions	130
	Invited Science Session	131

7:00 p.m.–10:00 p.m.

Industry Therapeutic Updates

Industry-sponsored, non-CME programs will be offered and are open to attendees at no charge. They will provide an opportunity for pharmaceutical companies, device companies, or other neurologic-related organizations to share information regarding their current therapies and projects in the pipeline in accordance with standards set for industry by the FDA.

My Tuesday

Time _____ to _____

Program # _____ Program Name _____

9:00 a.m.–11:30 a.m. Frontiers in Neuroscience Plenary Session

11:30 a.m.–1:00 p.m. Lunch

Time _____ to _____

Program # _____ Program Name _____

Time _____ to _____

Program # _____ Program Name _____

6:30 a.m.–8:30 a.m.

C166	SIF Acute Neurological Emergencies	90
C167	SIF Current State of Alzheimer's Disease Imaging Biomarkers and the Road Ahead	36
C168	Clinical E-Pearls	61
C169	Clinical Epilepsy I.	51
C170	Principles of Genomic Medicine: Clinical Exome Sequencing in Neurologic Disease	62
C171	Management of Behavioral Disturbances in Dementias	36
C172	Neuro Flash: Neuro-ophthalmology	105
C173	Therapy of Movement Disorders: A Case-based Approach	78
C174	Clinical EMG I	96
C175	The Interface Between Infection and Cerebrovascular Disease	43
C176	Therapy of Headache	70
	Scientific Platform Sessions	131

8:30 a.m.–7:00 p.m.

P5	Poster Session V	131
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9:00 a.m.–11:00 a.m.

Clinical Trials Plenary Session

11:00 a.m.–4:00 p.m.

Exhibit Hall

1:00 p.m.–2:00 p.m.

① Personalized Neurogenomic Medicine

1:00 p.m.–3:00 p.m.

C177	Therapy in Neurology III	62
C178	Clinical Epilepsy II	51
C179	Sports Concussion and Other Mild Concussive Injuries I	90
C180	Genomic Neurology Workshop: Developing Practical Knowledge of Tools and Concepts Through Case Studies I (<i>registration required</i>)	63
C181	Multiple Sclerosis Therapy: Disease-modifying Treatment I	84
C182	Neuro-otology I	105
C183	Clinical EMG II	96
C184	Navigating Primary Brain Tumors for the Neurologist I	100
C185	Autism Spectrum Disorders—What We Know and Where We Are Going	46
C186	Neurologic Case Studies in Pregnancy I	63

C187	Rehabilitation in Neurology	109
C188	⑤ Clinical Uses of Botulinum Toxin for Headache Skills Workshop (<i>registration required</i>)	78
	Scientific Platform Sessions	131

1:00 p.m.–5:00 p.m.

C234	⑤ The Most Important Tool in Your Black Bag: Gallup StrengthsFinder™ Assessment II (<i>registration required</i>)	119
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1:00 p.m.–5:30 p.m.

C189	⑤ Neuromuscular Bedside Rounds Skills Workshop (<i>registration required</i>)	96
I11	SIF Neurocritical Care and Neuroscience Crossroads: From Bench To Bedside	131
I12	SIF Amyloid and Beyond: From Bench to Bedside	131

3:30 p.m.–5:30 p.m.

C190	Therapy in Neurology IV	63
C191	Clinical Epilepsy III	51
C192	Sports Concussion and Other Mild Concussive Injuries II	91
C193	Genomic Neurology Workshop: Developing Practical Knowledge of Tools and Concepts Through Case Studies II (<i>registration required</i>)	64
C194	Multiple Sclerosis Therapy: Disease-modifying Treatment II	84
C195	The Neurology of Social Behavior	37
C196	Neuro-otology II	105
C197	Approach to the Shaky Patient	79
C198	Clinical EMG III.	97
C199	Navigating Primary Brain Tumors for the Neurologist II.	100
C200	Neurologic Case Studies in Pregnancy II	64
C201	Neurocysticercosis and Globalization	67
	Scientific Platform Sessions	131
	Invited Science Session	131

7:00 p.m.–10:00 p.m.

Industry Therapeutic Updates

Industry-sponsored, non-CME programs will be offered and are open to attendees at no charge. They will provide an opportunity for pharmaceutical companies, device companies, or other neurologic-related organizations to share information regarding their current therapies and projects in the pipeline in accordance with standards set for industry by the FDA.

My Wednesday

- Registration fee required
- AAN Leadership Development
- I Talk session

- Experiential Learning Area
- Clinical Research track
- Subspecialty in Focus track

Time _____ to _____

Program # _____ Program Name _____

9:00 a.m.–11:00 a.m. Clinical Trials Plenary Session

11:30 a.m.–1:00 p.m. Lunch

Time _____ to _____

Program # _____ Program Name _____

Time _____ to _____

Program # _____ Program Name _____

EXPERIENTIAL LEARNING AREA

 **LOCATION:**
Room 110

I TALKS

Dynamic, one-hour programs will promote innovation, audience participation, and interaction.

- Learn how to get the most out of the AAN's apps and online resources
- Join discussions about the latest standards for measuring quality in neurology and today's hot-topic ethical issues
- Participate in social media Q&As and a live Neuroexam demonstration
- Watch live, real-time intraoperative monitoring
- **MORE**



AAN
●●●●● 2016
Annual Meeting

6:30 a.m.–8:30 a.m.

C202	SIF The Eyes and The Ears of Traumatic Brain Injury	106
C203	Vascular Cognitive Impairment and Dementia: Current Status and Future	37
C204	Important Drug Interactions for Neurologists and Psychiatrists	65
C205	Cerebellar and Afferent Ataxias: Diagnosis and Management	79
C206	Neuro Flash: MRI and Multiple Sclerosis	85
C207	Stroke in Young Adults and Women	43
C208	Approach to Sleep Symptoms: Sleepy or Sleepless	128
C209	What Neurologists Really Need to Know About Normal Pressure Hydrocephalus	37
C210	Non-Neuro-oncology Palliative Care	111
C211	Emergency Room Neuro-ophthalmology	106
C212	Overview of Parkinson's Disease	79
	Scientific Platform Sessions	131

8:00 a.m.–9:00 a.m.

- 📍 Canalith Repositioning from Benign
Parosymmal Positional Vertigo

8:30 a.m.–5:30 p.m.

P6	Poster Session VI.	131
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9:00 a.m.–11:30 a.m.

Neurology Year in Review Plenary Session

11:00 a.m.–3:00 p.m.

Exhibit Hall

1:00 p.m.–2:00 p.m.

- 📍 New Approaches to Biosensing and Biomarkers
for the Management of Neurological Disease

1:00 p.m.–3:00 p.m.

C213	Primer of Behavioral Neurology I	38
C214	Neurology Update III	65
C215	Deep Brain Stimulation Management I	80
C216	Neuromyelitis Optica Spectrum Disorders	85
C217	Neuromuscular Junction Disorders I	97
C218	Hot Topics in Sleep Neurology I	129
C219	Neurologic Complications of Medical Disease: An Overview	66
C220	Non-Alzheimer's Dementia I	38
C221	Hot Topics in Headaches and Related Disorders I	70
C222	Critical Care EEG Monitoring	52
	Scientific Platform Sessions	131
	Section Topic Controversies	131

1:00 p.m.–5:30 p.m.

C223	📍 Neuromuscular Ultrasound Skills Workshop (registration required)	97
I13	SIF Sports-related Concussion: Vision and Vestibular Insights	131
I14	Practical Approaches to Narrowing the Epilepsy Treatment Gap	131

3:30 p.m.–5:30 p.m.

C224	Primer of Behavioral Neurology II	39
C225	Neurology Update IV	66
C226	Deep Brain Stimulation Management II	80
C227	Organize and Run a Successful Code Stroke System	44
C228	Neuromuscular Junction Disorders II	98
C229	Hot Topics in Sleep Neurology II	129
C230	Neurologic Complications of Medical and Surgical Therapies	66
C231	Non-Alzheimer's Dementia II	39
C232	Hot Topics in Headaches and Related Disorders II	71
	Scientific Platform Sessions	131

5:30 p.m.–7:00 p.m.

	Closing Party Happy Hour	135
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"The best part is meeting colleagues I haven't seen in ages, great teaching, and meeting on-demand. With meeting on-demand, I listen to the best courses 1-2 days after they are presented, virtually and on my own time."

Christian Neumann, MD, Larbert, UK

My Thursday

📍 Registration fee required
👤 AAN Leadership Development
🗣️ I Talk session

🔍 Experiential Learning Area
🏥 Clinical Research track
📋 Subspecialty in Focus track

Time _____ to _____

Program # _____ Program Name _____

9:00 a.m.–11:30 a.m. Neurology Year in Review Plenary Session

11:30 a.m.–1:00 p.m. Lunch

Time _____ to _____

Program # _____ Program Name _____

Time _____ to _____

Program # _____ Program Name _____

5:30 p.m.–7:00 p.m. Closing Party Happy Hour

EXPERIENTIAL LEARNING AREA

📍 LOCATION:
West Level 1



Excitement of Discovery

Visit the Excitement of Discovery area to experience the exciting research discoveries that have led to meaningful changes in how you practice neurology.

- Learn about the AAN Clinical Research Training Fellowship program
- Hear how the AAN is advocating for additional research funding
- Watch the "Neuroscience Is..." campaign come to life through video and learn about new initiatives for 2016
- **MORE**



Annual Meeting Session List by Topic

Aging, Dementia, Cognitive, and Behavioral Neurology

C28	Higher Cortical Visual Disorders: Case-based Review.	101
C29	Assessment of Rapidly Progressive Dementias and Related Neurologic Conditions I.	32
C42	Assessment of Rapidly Progressive Dementias and Related Neurologic Conditions II.	32
C51	Case Studies in Behavioral Neurology: Focus on Frontotemporal Degeneration.	32
C60	Dementia Update: Diagnostic Advances.	33
C71	Dementia Update: Imaging Modalities and CTE.	33
I5	Sex-related Factors in Neurological Disease.	130
C84	Dementia Update: Non-Alzheimer Dementias and Dementia Management.	34
C97	Severe TBI: From ICU to Rehabilitation.	108
C99	Morning Report: Memory Disorders.	34
I7	The Human Connectome: Implications for Clinical Neurology.	130
C121	Emotional Communication: Chalk Talk.	34
C133	Mild Cognitive Impairment: Implications for Clinicians.	35
C142	Improving Accuracy of Dementia Diagnosis: Case Studies with Both Imaging and Neuropathology.	35
I9	Sleep, Clocks, and Alzheimer's Disease.	131
C167	SIF Current State of Alzheimer's Disease Imaging Biomarkers and the Road Ahead.	36
C171	Management of Behavioral Disturbances in Dementias.	36
I12	SIF Amyloid and Beyond: From Bench to Bedside.	131
C195	The Neurology of Social Behavior.	37
C203	Vascular Cognitive Impairment and Dementia: Current Status and Future.	37
C209	What Neurologists Really Need to Know About Normal Pressure Hydrocephalus.	37
C213	Primer of Behavioral Neurology I.	38
C220	Non-Alzheimer's Dementia I.	38
C224	Primer of Behavioral Neurology II.	39
C231	Non-Alzheimer's Dementia II.	39

Cerebrovascular Disease and Interventional Neurology

C25	Update on Medical Management of Stroke.	40
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EXPERIENTIAL LEARNING AREA



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- Take part in forums, one-on-one mentoring, and group discussions with neurologists at all stages of their careers
- Learn from successful neurologists and advanced practice providers on how to establish and maintain effective partnerships
- Hear from neurologists who chose careers outside of academia in areas such as teleneurology, government, and advocacy
- Hone your skills in conflict resolution, giving and receiving feedback, and interviewing

 LOCATION:
West Level 2

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AAN
 **2016**
Annual Meeting

Course Descriptions

Aging, Dementia, Cognitive, and Behavioral Neurology

Aging, Dementia, Cognitive, and Behavioral Neurology

Saturday, April 16, 2016 6:30 a.m.–8:30 a.m.

C28 Higher Cortical Visual Disorders: Case-based Review

Topics: Neuro-ophthalmology/Neuro-otology;
Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Sashank Prasad, MD, Boston, MA

See complete course description on [page 101](#) »

Saturday, April 16, 2016 1:00 p.m.–3:00 p.m.

C29 Assessment of Rapidly Progressive Dementias and Related Neurologic Conditions I

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Steven Vernino, MD, PhD, FAAN, Dallas, TX

Program Description:

Rapidly progressive dementia is a dramatic and challenging presentation. The differential diagnosis is broad and includes many potentially reversible conditions. Through presentation of common and challenging cases, faculty will review the differential diagnosis of RPD, the approach, and management strategies. This session will focus on CJD and neurodegenerative disorders.

This program complements C42: Assessment of Rapidly Progressive Dementias and Related Neurologic Conditions II, but covers independent topics.

Upon Completion:

Participants should be familiar with the differential diagnosis of RPD and the clinical presentation and evaluation of the more common conditions.

Lecture/Faculty:

- ▶ Human Prion Diseases, Including Jakob-Creutzfeldt Disease
Michael D. Geschwind, MD, PhD, San Francisco, CA
- ▶ Neurodegenerative Disorders Presenting as Rapidly Progressive Dementia
Bradley F. Boeve, MD, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Saturday, April 16, 2016 3:30 p.m.–5:30 p.m.

C42 Assessment of Rapidly Progressive Dementias and Related Neurologic Conditions II

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Steven Vernino, MD, PhD, FAAN, Dallas, TX

Program Description:

Rapidly progressive dementia is a dramatic and challenging presentation. The differential diagnosis is broad and includes many potentially reversible conditions. Through presentation of common and challenging cases, faculty will review the differential diagnosis of RPD, the approach, and management strategies. This session will focus on infectious and autoimmune causes of RPD.

This program complements C29: Assessment of Rapidly Progressive Dementias and Related Neurologic Conditions I, but covers independent topics.

Upon Completion:

Participants should be familiar with the differential diagnosis of RPD and the clinical presentation and evaluation of the more common conditions.

Lecture/Faculty:

- ▶ Conventional Infections Presenting as Rapidly Progressive Dementia
Allen J. Aksamit, Jr., MD, FAAN, Rochester, MN
- ▶ Autoimmune Encephalopathies
Steven Vernino, MD, PhD, FAAN, Dallas, TX

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Saturday, April 16, 2016 6:30 p.m.–9:30 p.m.

C51 Case Studies in Behavioral Neurology: Focus on Frontotemporal Degeneration

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Daniel Kaufer, MD, FAAN, Chapel Hill, NC

Program Description:

Faculty will use case-based, didactic, and interactive teaching methods to illustrate a comprehensive approach to diagnosing and treating the spectrum of disorders associated with frontotemporal degeneration (FTD). Case studies will highlight the core features and differential diagnosis of FTD-spectrum disorders, and didactic material will support discussion of different pathophysiological substrates, associated movement disorders, brain imaging, genetic testing, and comprehensive management strategies.

Upon Completion:

Participants should enhance their expertise in recognizing and managing FTD-related disorders and improve clinical assessment skills in cognitive, behavioral, and motor areas; enhance knowledge regarding appropriate use of diagnostic brain imaging and genetic testing, when indicated; and be able to employ a comprehensive therapeutic strategy based on current empirical approaches and an understanding of potential future therapies.

Lecture/Faculty:

- Overview of FTD Spectrum Disorders
Daniel Kaufer, MD, FAAN, Chapel Hill, NC
- Case Studies Presentations by the Panel
Tiffany W. Chow, MD, FAAN, Kailua Kona, HI
Daniel Kaufer, MD, FAAN, Chapel Hill, NC
Mario F. Mendez, MD, PhD, FAAN, Los Angeles, CA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 3.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Sunday, April 17, 2016 6:30 a.m.–8:30 a.m.

C60 Dementia Update: Diagnostic Advances

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: John C. Morris, MD, FAAN, St. Louis, MO

Program Description:

Knowledge in the area of dementia is rapidly evolving. Faculty will present the clinical and molecular biology of Alzheimer's disease; an overview of frontotemporal dementia and dementia with Lewy bodies; rapidly progressive dementia; chronic traumatic encephalopathy; and dementia from clinical, neuropsychological, neuroimaging, and fluid biomarker perspectives. Dementia management also will be reviewed. This is part one of a three-part course; each part will cover independent topics, however, attendees are encouraged to attend all three.

This program complements C71: Dementia Update: Imaging Modalities and CTE and C84: Dementia Update: Non-Alzheimer Dementias and Dementia Management, but covers independent topics.

Upon Completion:

Participants should gain an understanding of the differential diagnosis of dementia; the appropriate role of neuropsychology, neuroimaging, and molecular biomarkers in supporting the diagnosis, and the management of dementing illnesses.

Lecture/Faculty:

- Alzheimer's Diagnosis Using Biomarkers
John C. Morris, MD, FAAN, St. Louis, MO
- Utility of Neuropsychological Testing in Alzheimer's Diagnosis
Katya Rascovsky, Philadelphia, PA

► Panel Discussion Faculty

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Sunday, April 17, 2016 1:00 p.m.–3:00 p.m.

C71 Dementia Update: Imaging Modalities and CTE

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: John C. Morris, MD, FAAN, St. Louis, MO

Program Description:

Knowledge in the area of dementia is rapidly evolving. Faculty will present the clinical and molecular biology of Alzheimer's disease; an overview of frontotemporal dementia and dementia with Lewy bodies; rapidly progressive dementia; chronic traumatic encephalopathy; dementia from clinical, neuropsychological, neuroimaging, and fluid biomarker perspectives; and dementia management. This is part two of a three-part course; each part will cover independent topics, however, attendees are encouraged to attend all three.

This program complements C60: Dementia Update: Diagnostic Advances and C84: Dementia Update: Non-Alzheimer Dementias and Dementia Management, but covers independent topics.

Upon Completion:

Participants should gain an understanding of the differential diagnosis of dementia; the appropriate role of neuropsychology, neuroimaging, and molecular biomarkers in supporting the diagnosis; and the management of dementing illnesses.

Lecture/Faculty:

- Dementia Update: Imaging Modalities
Jasmeer Chhatwal, MD, PhD, Boston, MA
- Dementia Update: Chronic Traumatic Encephalopathy
Ann C. McKee, MD, Boston, MA

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Course Descriptions

Aging, Dementia, Cognitive, and Behavioral Neurology

Sunday, April 17, 2016

3:30 p.m.–5:30 p.m.

C84 Dementia Update: Non-Alzheimer Dementias and Dementia Management

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: John C. Morris, MD, FAAN, St. Louis, MO

Program Description:

Knowledge in the area of dementia is rapidly evolving. Faculty will present the clinical and molecular biology of Alzheimer's disease; an overview of frontotemporal dementia and dementia with Lewy bodies; rapidly progressive dementia; chronic traumatic encephalopathy; dementia from clinical, neuropsychological, neuroimaging, and fluid biomarker perspectives; and dementia management. This is part three of a three-part course; each part will cover independent topics, however, attendees are encouraged to attend all three.

This program complements C60: Dementia Update: Diagnostic Advances and C71: Dementia Update: Imaging Modalities and CTE, but covers independent topics.

Upon Completion:

Participants should be able to appreciate the differential diagnosis of dementia; the appropriate role of neuropsychology, neuroimaging, and molecular biomarkers in supporting the diagnosis; and the management of dementing illnesses.

Lecture/Faculty:

- ▶ **Dementia Update: Non-AD Dementias**
Eric M. McDade, DO, St. Louis, MO
- ▶ **Dementia Update: Management**
Gregory S. Day, MD, MSc, St. Louis, MO

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Monday, April 18, 2016

6:30 a.m.–8:30 a.m.

C97 Severe TBI: From ICU to Rehabilitation

Topics: Neuro-rehabilitation;
Aging, Dementia, Cognitive, and Behavioral Neurology;
Neuro Trauma, Critical Care, and Sports Neurology

Director: Holly E. Hinson, MD, Portland, OR

See complete course description on [page 108 »](#)

Monday, April 18, 2016

6:30 a.m.–8:30 a.m.

C99 Morning Report: Memory Disorders

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: David A. Wolk, MD, Philadelphia, PA

Program Description:

Memory loss is almost certainly the most common presenting cognitive complaint encountered by neurologists and internists in clinical practice. However, the underlying cognitive impairment may be quite disparate, reflecting the multiple memory systems that can dysfunction. Even within a particular type of memory (e.g., episodic memory), qualitative differences in the nature of the impairment may be due to disruption of different underlying component processes. As these systems and subprocesses have unique functional neuroanatomical underpinnings, identification has localizing value which ultimately assists in determining the etiology. Faculty will present cases to highlight practical approaches to the history and examination to make these distinctions and discuss use of ancillary studies and available therapeutic interventions.

Upon Completion:

Participants should develop a framework for the evaluation of patients with memory disorders with a particular focus on discriminating different types of memory failures and their implication for the underlying brain "lesion" and diagnosis.

Lecture/Faculty:

- ▶ **Differential Diagnosis of Episodic Memory Failures: Case Presentations**
Andrew E. Budson, MD, Boston, MA
- ▶ **Clinical Assessment of Memory Loss: Case Presentations**
David A. Wolk, MD, Philadelphia, PA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Non-Neurologist

Monday, April 18, 2016

3:30 p.m.–5:30 p.m.

C121 Emotional Communication: Chalk Talk

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Kenneth M. Heilman, MD, FAAN, Gainesville, FL

Program Description:

When assessing mental status, many neurologists use standardized tests such as the Mini-Mental Status Examination (MMSE) or the Montreal Cognitive Assessment (MoCA). Unfortunately, for the most part, these tests do not assess disorders of emotional communication such as affective aprosodia (expression and comprehension of emotional speech prosody) as well as an impaired ability to express and comprehend emotional facial expressions. In the absence of

testing for the presence of these emotion communication disorders, there may be errors in diagnosis, as well as inadequate management and treatment of these serious disabilities. Therefore, the goal of this Chalk Talk will be to discuss the signs and symptoms of impaired emotional communication; how to test for these signs, the pathophysiology of these disorders, including the diseases that may cause these disabilities; and both treatment and management strategies.

Upon Completion:

Upon completion of this program participants should be able to assess patients for disorders of emotional communication, be able to localize the source of this dysfunction and the diseases that may cause these deficits, better understand the possible neuropsychological mechanisms that induce these disorders, and understand management and treatment strategies.

Lecture/Faculty:

- ▶ Emotional Communication
Kenneth M. Heilman, MD, FAAN, Gainesville, FL

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Tuesday, April 19, 2016 6:30 a.m.–8:30 a.m.

C133 Mild Cognitive Impairment: Implications for Clinicians

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: David J. Gill, MD, Rochester, NY

Program Description:

The diagnosis of mild cognitive impairment (MCI) often represents prodromal Alzheimer's disease or other dementia. However, diagnosis, prediction of outcome, and treatment of patients with mild cognitive impairment, presents many challenges. Faculty will address the diagnosis, pathophysiology, role of biomarkers, and treatment of mild cognitive impairment. The upcoming revision of the AAN guidelines for MCI will be reviewed and a number of cases will be presented to illustrate controversies and management issues.

Upon Completion:

Participants should be able to understand the basic biology of MCI and be familiar with the recommended diagnostic strategy, appropriate use of biomarkers, and management of patients with MCI.

Lecture/Faculty:

- ▶ Overview of Mild Cognitive Impairment
Ronald C. Petersen, PhD, MD, Rochester, MN
- ▶ Prediction of Outcome and Treatment of Mild Cognitive Impairment
David J. Gill, MD, Rochester, NY

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Tuesday, April 19, 2016 1:00 p.m.–3:00 p.m.

C142 Improving Accuracy of Dementia Diagnosis: Case Studies with Both Imaging and Neuropathology

Topics: Aging, Dementia, Cognitive, and Behavioral Neurology; General Neurology

Director: Edward Y. Zamrini, MD, Sun City, AZ

Program Description:

The goal of this course is to sharpen participants' diagnostic skills when evaluating patients with dementia. Faculty will lead an interactive discussion of clinical scenarios consisting of medical histories and examinations of patients with pathologically confirmed dementing diseases requiring considerable skill for diagnosis such as Alzheimer's disease (AD), frontotemporal dementia (FTD), dementia with Lewy bodies (DLB), and Creutzfeldt-Jakob disease. Participants will be able to test their clinical acumen against results of structural and molecular imaging and detailed neuropathology. Faculty will use the cases to illustrate diagnostic pearls and pitfalls, and discussion will be stimulated by tabulation of audience votes on case diagnoses.

Upon Completion:

Participants should be able to appreciate the differences in diagnostic criteria for the major neurodegenerative diseases, become familiar with key distinguishing features, recognize when to use certain tests to increase diagnostic confidence, and appreciate the importance of neuropathological confirmation.

Lecture/Faculty:

- ▶ Introduction and Process
Edward Y. Zamrini, MD, Sun City, AZ
- ▶ Cases, Audience Response, and Discussions
James B. Leverenz, MD, FAAN, Cleveland, OH
Edward Y. Zamrini, MD, Sun City, AZ

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Audience Participation, Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Course Descriptions

Aging, Dementia, Cognitive, and Behavioral Neurology

Wednesday, April 20, 2016 6:30 a.m.–8:30 a.m.

C167 ^{SIF} Current State of Alzheimer's Disease Imaging Biomarkers and the Road Ahead

Topics: Aging, Dementia, Cognitive, and Behavioral Neurology; Subspecialty in Focus

Director: Liana Apostolova, MD, FAAN, Indianapolis, IN

Program Description:

As of Spring 2015, only CSF-based approaches for biomarker-aided diagnosis of Alzheimer's disease are being reimbursed. The education course will update clinicians on the newest vivo methods to detect AD pathology in the brain. Faculty will briefly review the neurodegenerative disorders before informing attendees of the barriers to using amyloid radiotracers in the diagnostic evaluation of Alzheimer's and mild cognitive impairment and our efforts to overcome these barriers. One theme that will be covered is how these new biomarkers can help us understand the heterogeneity of neurodegeneration, and help us improve therapeutic outcomes.

This program is offered in partnership with the Geriatric Neurology Section.

Upon Completion:

Participants should understand the role new imaging methods play in neurodegenerative diseases; gain knowledge of the specific imaging biomarker signatures of the major classes of neurodegenerative diseases; understand how biomarkers can be used in conjunction with clinical findings to refine the differential diagnosis; understand how biomarkers may be used in the future to facilitate targeted therapies; and understand the barriers for using amyloid imaging in clinical settings and the approaches needed to rectify those barriers.

Lecture/Faculty:

- ▶ How Amyloid Imaging is Redefining the AD Spectrum from Preclinical to Dementia
Tammie Benzinger, MD, PhD, St. Louis, MO
- ▶ DTI Connectomics in AD and its Relationship to Tau and Amyloid Imaging
Kejal Kantarci, MD, Rochester, MN
- ▶ Amyloid and Tau PET Imaging: Evidence for Clinical Use
Gil Rabinovici, MD, San Francisco, CA
- ▶ Case Presentations/Questions and Answers
Faculty

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Wednesday, April 20, 2016 6:30 a.m.–8:30 a.m.

C171 Management of Behavioral Disturbances in Dementias

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Maria Katak, MD, PhD, Columbus, OH

Program Description:

This course will provide a knowledge base and practical approach to the management of behavioral disturbances in dementia patients. The target audience would be practicing physicians managing dementia patients in the community, hospital setting, or long-term care institutions. Faculty will outline the spectrum of behavioral disturbances in dementia; emphasize identification of target symptoms and the rational use of polypharmacy; discuss behavioral modification approaches to specific behaviors; and review literature and preferred approaches regarding pharmacological management of abnormal behaviors. Covered behaviors include: aggression, agitation, delusions, hallucinations, depression, anxiety, elation, apathy, disinhibition, irritability, aberrant motor behavior, sleep disturbances, and eating disturbances.

Upon Completion:

Upon completion participants should be able to identify behavioral disturbances in dementia patients; apply appropriate pharmacological management when indicated to improve quality of life, to minimize patient and caregiver distress and to assure safety; apply behavioral modification techniques when appropriate; decrease polypharmacy that can compromise dementia care; delay nursing home placement with appropriate management of behavioral disturbances.

Lecture/Faculty:

- ▶ Management of Behavioral Disturbances in Dementia: Introduction
Maria Katak, MD, PhD, Columbus, OH
- ▶ Management of Non-Psychotic Behavioral Disturbances in Dementia
Douglas W. Scharre, MD, Columbus, OH
- ▶ Management of Psychosis and Agitation in Dementia
Maria Katak, MD, PhD, Columbus, OH

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

New 2-Hour Education Course Format

Educational theory research suggests that learners pay attention and learn better in short amounts of time rather than in long sessions. That's why we've re-tooled this year's education program to offer most courses in 2-hour increments vs. the prior half-day and full-day course structure.

Wednesday, April 20, 2016 3:30 p.m.–5:30 p.m.

C195 The Neurology of Social Behavior

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Bradford Dickerson, MD, Boston, MA

Program Description:

Over the past decade, we have seen remarkable advances in our knowledge of social cognitive and affective neuroscience. Our understanding of the neural circuits underpinning socioemotional behaviors such as empathy, self-awareness, warmth, and reading others' intentions is more precise than ever before. Faculty will provide an overview of how specific neural networks normally function to support social behavior, and will show how this new information can improve our ability to understand the kinds of neurologically based behavioral dysfunction that result from disease and injury. Disturbances of socioemotional behavior in clinical neurology will be discussed using data from patients with diseases that particularly impair social functions, such as frontotemporal dementia, autism, ADHD, sociopathy, and Williams syndrome.

Upon Completion:

Participants should be able to understand that social behavior and cognition rely on specific neurologic systems in the brain, have a sense of the basic organization and general neuroanatomy of social behavior, and be aware of specific neurologic conditions that particularly impair social functioning.

Lecture/Faculty:

- ▶ Social Function and Dysfunction
Elizabeth Finger, MD, London, ON, Canada
- ▶ Impairments in Social Behavior
Bradford Dickerson, MD, Boston, MA
- ▶ Case Discussion
Faculty

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Thursday, April 21, 2016 6:30 a.m.–8:30 a.m.

C203 Vascular Cognitive Impairment and Dementia: Current Status and Future

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Larry B. Goldstein, MD, FAAN, FAHA, Lexington, KY

Program Description:

Faculty will provide an overview of clinical science-related vascular cognitive impairment and dementia. An introduction to the overall status and challenges in the field will be followed by a review of current diagnostic strategies and treatment and potential future

approaches. This program will conclude with a general and time-permitting case discussions.

Upon Completion:

Participants should be able to discuss diagnostic challenges, and current and possible future approaches to VCI/dementia.

Lecture/Faculty:

- ▶ Vascular Cognitive Impairment/Dementia: Setting the Stage
Larry B. Goldstein, MD, FAAN, FAHA, Lexington, KY
- ▶ Assessment and Diagnosis of Patients with Suspected VCI/ Dementia
Vladimir Hachinski, MD, DSc, FAAN, London, ON, Canada
- ▶ Current and Future Management of Patients with VCI/ Dementia
Gregory A. Jicha, MD, PhD, Lexington, KY
- ▶ General Discussion/Case Example
Faculty

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic, Interactive, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Thursday, April 21, 2016 6:30 a.m.–8:30 a.m.

C209 What Neurologists Really Need to Know About Normal Pressure Hydrocephalus

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Michael A. Williams, MD, FAAN, Seattle, WA

Program Description:

Idiopathic normal pressure hydrocephalus (INPH) is a disorder of the elderly that comprises the three most common symptoms of aging: gait impairment, dementia, and urinary incontinence. The only effective treatment is surgical implantation of a shunt, which makes proper selection of patients for surgery a high stakes decision. Faculty will review key clinical and radiographic features that suggest the need for specific INPH testing; outline contemporary diagnostic approaches to INPH, including lumbar puncture and continuous CSF drainage via lumbar catheter; and review the longitudinal management of INPH patients with shunts, including the use of programmable shunts to improve INPH symptoms or address shunt complications. This course will focus on practical management knowledge and skills.

Upon Completion:

Participants should be able to describe the key clinical and neuroimaging features that distinguish INPH from other causes of dementia and gait impairment in the elderly such as cerebrovascular disease or degenerative disorders; describe how to use key diagnostic modalities, such as lumbar puncture or continuous CSF drainage, to identify patients likely to respond to shunt surgery; and describe principles of longitudinal management of patients with shunts,

Course Descriptions

Aging, Dementia, Cognitive, and Behavioral Neurology

including shunt programming and assessment of possible shunt failure.

Lecture/Faculty:

- ▶ **Assessment of Patients with Suspected INPH**
Michael A. Williams, MD, FAAN, Seattle, WA
- ▶ **Surgical Treatment and Longitudinal Management of INPH**
Mark Hamilton, MD, Calgary, AB, Canada

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Audience Participation, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Thursday, April 21, 2016 1:00 p.m.–3:00 p.m.

C213 Primer of Behavioral Neurology I

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Maria Gorno Tempini, MD, PhD, San Francisco, CA

Program 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 executive function, social behavior and comportment and language. 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 will be reviewed.

This program complements C224: Primer of Behavioral Neurology II, but covers independent topics.

Upon Completion:

Participants should be able to describe strengths and weaknesses of a variety of approaches (e.g., neuroimaging methods) toward identifying structure-function relationships, and should be able to describe some recent insights into the neural bases of executive function, social behavior, and language. Participants should be able to describe the component processes of these cognitive abilities using a contemporary cognitive neuroscience perspective. Participants should increase their sophistication in understanding the neurobehavioral assessment of patients with behavioral and cognitive neurologic disorders, including dementias.

Lecture/Faculty:

- ▶ **Network Anatomy of Behavioral Guidance**
Faculty
- ▶ **Language Pathways for Speech Production and Comprehension**
Maria Gorno Tempini, MD, PhD, San Francisco, CA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Thursday, April 21, 2016 1:00 p.m.–3:00 p.m.

C220 Non-Alzheimer's Dementia I

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Gil D. Rabinovici, MD, San Francisco, CA

Program Description:

Frontotemporal Dementia (FTD) and Chronic Traumatic Encephalopathy (CTE) represent important, likely under-diagnosed causes of neurodegenerative dementia. FTD is as common as Alzheimer's disease (AD) in patients presenting with an early-onset dementia (under age 65), whereas CTE is increasingly recognized as autopsy in individuals exposed to repetitive mild traumatic brain injury (through contact sports, military exposures, and other high-risk endeavors) who present with neurobehavioral decline. Faculty will present a case-based approach to introduce the diverse clinical presentations of these disorders, and provide an update on biomarker development and on advances in understanding the genetic and molecular underpinnings of these disorders.

This program complements C231: Non-Alzheimer's Dementia II, but covers independent topics.

Upon Completion:

Participants should be able to apply up-to-date clinical criteria and diagnostic tools to classify the different sub-types of FTD, to identify individuals at risk for CTE, and to differentiate FTD and CTE from AD. Improving clinical diagnosis and in vivo prediction of molecular pathology is critical in preparation for emerging disease-specific therapies for these disorders.

Lecture/Faculty:

- ▶ **Frontotemporal Dementia and Primary Progressive Aphasia**
Gil D. Rabinovici, MD, San Francisco, CA
- ▶ **Chronic Traumatic Encephalopathy**
Andrew E. Budson, MD, Boston, MA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism

Teaching Style: Interactive, Audience Participation, Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Psychiatrist

Thursday, April 21, 2016

3:30 p.m.–5:30 p.m.

C224 Primer of Behavioral Neurology II

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Maria Gorno Tempini, MD, PhD, San Francisco, CA

Program 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 executive function, social behavior and comportment and language. 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 will be reviewed.

This program complements C213: Primer of Behavioral Neurology I, but covers independent topics.

Upon Completion:

Participants should be able to describe strengths and weaknesses of a variety of approaches (e.g., neuroimaging methods) toward identifying structure-function relationships, and should be able to describe some recent insights into the neural bases of executive function, social behavior, and language. Participants should be able to describe the component processes of these cognitive abilities using a contemporary cognitive neuroscience perspective. Participants should increase their sophistication in understanding the neurobehavioral assessment of patients with behavioral and cognitive neurologic disorders, including dementias.

Lecture/Faculty:

- ▶ **Two Routes to Skilled Action in the Healthy and Damaged Brain**
Faculty
- ▶ **Memory: Systems, Abilities, and Deficits**
Faculty

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist



"I am a fellow in EMG and the introductory courses in EMG have been very useful. The best part of the Annual Meeting is the ability to meet with peers and learn from their expertise."

Rainer Paine, MD, PhD, Bethesda, MD

Thursday, April 21, 2016

3:30 p.m.–5:30 p.m.

C231 Non-Alzheimer's Dementia II

Topic: Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Gil D. Rabinovici, MD, San Francisco, CA

Program Description:

Occasionally lumped as "Parkinson's Plus" syndromes, Lewy body disease (DLB), multiple systems atrophy (MSA), progressive supranuclear palsy (PSP), and corticobasal syndrome (CBS) are associated with distinct clinical and pathological features, differential responses to dopamine therapy and differential sensitivity to neuroleptics and other agents. Furthermore, in addition to the movement disorder, all these diseases are associated with cognitive, behavioral, and systemic symptoms that provide unique challenges for clinicians and caregivers. Faculty will provide a case-based approach to introduce the clinical characteristics of these disorders and provide up-to-date recommendations on clinical management, as well as provide an update on biomarker development and advances in unraveling the pathophysiology and developing disease-specific therapeutics.

This program complements C220: Non-Alzheimer's Dementia I, but covers independent topics.

Upon Completion:

Participants should be able to apply up-to-date clinical criteria and current evidence to diagnose and treat DLB, MSA, PSP, and CBS.

Lecture/Faculty:

- ▶ **Alpha-Synucleinopathies: PD, DLB, and MSA**
Bradley F. Boeve, MD, Rochester, MN
- ▶ **4-Repeat Tauopathies: PSP and CBD**
Faculty

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Psychiatrist, Geriatrician

Course Descriptions

Cerebrovascular Disease and Interventional Neurology

Cerebrovascular Disease and Interventional Neurology

Saturday, April 16, 2016

6:30 a.m.–8:30 a.m.

C25 Update on Medical Management of Stroke

Topic: Cerebrovascular Disease and Interventional Neurology

Director: Natalia S. Rost, MD, FAAN, Boston, MA

Program Description:

For patients presenting with signs and symptoms of acute stroke, the window for diagnosis and intervention is narrow and treatment options are often limited. This program will address the challenges in management of acute stroke and provide the essential skill set for rapid clinical decision-making based on the latest advances in cerebrovascular disease. Faculty will outline critical milestones in the management timeline of acute stroke and resources necessary to deliver best practices in stroke care.

Upon Completion:

Participants will be familiar with the latest advances in medical management of acute stroke including: best practices in selecting patients for thrombolytic and antithrombotic agent use; management of fluctuating neurological exam and hyperacute stroke complications; referral for early endovascular and surgical interventions; and resources (such as TeleStroke and advanced neuroimaging) to guide precision-diagnosis and management options that are known to improve stroke outcomes.

Lecture/Faculty:

- ▶ **The Hyperacute Stroke: All That On-call Neurologists Need to Know**
Natalia S. Rost, MD, FAAN, Boston, MA
- ▶ **Beyond Thrombolytics: Medical Management of Acute Stroke and Its Early Complications**
Jose Biller, MD, FAAN, FACP, FAHA, Chicago, IL
- ▶ **Difficult Decision-Making in Acute Stroke: Tools and Resources for Management of Unstable Patients**
Natalia S. Rost, MD, FAAN, Boston, MA
- ▶ **Special Cases in Acute Ischemic and Hemorrhagic Stroke: Challenging the Norm**
Jose Biller, MD, FAAN, FACP, FAHA, Chicago, IL

Core Competency: Patient Care

Teaching Style: Interactive, Audience Participation, Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Sunday, April 17, 2016

6:30 a.m.–8:30 a.m.

C70 Update on Endovascular Treatment of Cerebrovascular Diseases

Topic: Cerebrovascular Disease and Interventional Neurology

Director: Dileep R. Yavagal, MD, Miami, FL

Program Description:

Advances in endovascular therapy for ischemic stroke and cerebrovascular diseases have greatly impacted the ability of neurologists in managing these complex disorders. Faculty will review results and lessons learned from the three recent major trials of endovascular therapy for ischemic stroke and several new trials that are underway. Advances in intracranial and carotid stenting make these procedures effective, and faculty will review both the safety and efficacy of these treatments for secondary prevention. Endovascular therapy is now the mainstay of treatment for aneurysms and vascular malformations and faculty will review the most recent advances in this field.

Upon Completion:

Participants should be familiar with the most recent advances and treatment modalities for endovascular therapy of acute ischemic stroke; be updated on the current evidence supporting the indications for angioplasty and stenting of carotid atherosclerosis, extracranial vertebral and intracranial atherosclerosis; and be updated on the recent advances and selection of patients with aneurysms and vascular malformations for endovascular therapy.

Lecture/Faculty:

- ▶ **Introduction to Update on Endovascular Therapy for Cerebrovascular Disorders**
Dileep R. Yavagal, MD, Miami, FL
- ▶ **New Guidelines on Endovascular Treatment of Acute Ischemic Stroke: Dawn of a New Era**
Dileep R. Yavagal, MD, Miami, FL
- ▶ **Endovascular Therapies for Pediatric Acute Stroke, Vein of Galen, and Other Cerebrovascular Abnormalities**
Johanna T. Fifi, MD, New York, NY
- ▶ **Emerging Endovascular Approaches for Complex Acute Stroke: Alternative Access and Multi-modal Therapy**
Ashutosh P. Jadhav, MD, Pittsburgh, PA
- ▶ **Endovascular Therapy for Brain Aneurysms, AVMs, and Dural AVFistulas**
Dileep R. Yavagal, MD, Miami, FL

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Interactive, Audience Participation, Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Nurses

Monday, April 18, 2016

6:30 a.m.–8:30 a.m.

C95 **SIF** Stroke Team Action Therapy (STAT): Current State of the Art

Topics: Cerebrovascular Disease and Interventional Neurology; Subspecialty in Focus

Director: Antonio Culebras, MD, FAAN, FAHA, Syracuse, NY

Program Description:

"Time is brain" is dogma in stroke medicine. With the accumulation of data and experience, the frontiers of i.v. thrombolysis have expanded and former relative contraindications are beginning to fall. The 3-hour window has been pushed under some conditions to 4.5 hours, and i.v. thrombolysis has been administered in pregnancy, cervico-cerebral artery dissection, retinal artery occlusion, wake-up stroke, and to patients with history of intracranial hemorrhage. The results are cautiously optimistic. Acute stroke action has taken a major leap forward with the revelation of robust benefits using mechanical thrombectomy in large artery strokes that respond insufficiently to standard i.v. thrombolysis. The program will review current medical evidence and the steps that are being taken to standardize these forms of care. The program will also present the utility, development, organization and functions of a comprehensive stroke center which constitutes the hub of acute Stroke Team Action Therapy (STAT).

This program is offered in partnership with the Stroke and Vascular Neurology Section.

Upon Completion:

Participants should become familiar with the expanding frontiers of iv thrombolysis in acute stroke, learn about the robust benefits of mechanical thrombectomy in acute stroke, and consider developing a comprehensive stroke center.

Lecture/Faculty:

- ▶ Introduction to STAT Therapy
Antonio Culebras, MD, FAAN, FAHA, Syracuse, NY
- ▶ Frontiers in IV Thrombolysis for Acute Ischemic Stroke
Steven R. Messe, MD, FAAN, FAHA, Philadelphia, PA
- ▶ Mechanical Thrombectomy for Acute Ischemic Stroke: A New and Evolving Standard of Care
Dileep R. Yavagal, MD, Miami, FL
- ▶ Comprehensive Stroke Center: What is Needed to Develop a Center
Julius Latorre, MD, Syracuse, NY

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Monday, April 18, 2016

6:30 a.m.–8:30 a.m.

C98 Cerebrovascular Disease I: Prevention

Topic: Cerebrovascular Disease and Interventional Neurology

Director: Larry B. Goldstein, MD, FAAN, FAHA, Lexington, KY

Program Description:

Faculty will cover specific, rotating topics related to the prevention of a first or recurrent stroke, including lifestyle modifications, statins, platelet antiaggregants, and anticoagulants. There will be ample time for discussion and questions.

This program complements C107: Cerebrovascular Disease II: Hemorrhagic Stroke and C120: Cerebrovascular Disease III: Acute Ischemic Stroke, but covers independent topics.

Upon Completion:

Participants should be able to recommend appropriate lifestyle changes for stroke prevention, select patients for treatment with a statin, identify patients who would benefit from treatment with a platelet antiaggregant regimen for primary and secondary stroke prevention, and identify patients with atrial fibrillation who would benefit from treatment with warfarin or a novel oral anticoagulant.

Lecture/Faculty:

- ▶ Introduction and the Importance of Lifestyle
Larry B. Goldstein, MD, FAAN, FAHA, Lexington, KY
- ▶ Statins for Primary and Secondary Stroke Prevention
Larry B. Goldstein, MD, FAAN, FAHA, Lexington, KY
- ▶ Platelet Antiaggregants for Primary and Secondary Stroke Prevention
Oscar R. Benavente, MD, FRCP(C), Vancouver, BC, Canada
- ▶ Anticoagulants for Stroke Prevention in Patients with Atrial Fibrillation
Karen L. Furie, MD, Providence, RI

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Interactive, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Monday, April 18, 2016

1:00 p.m.–3:00 p.m.

C107 Cerebrovascular Disease II: Hemorrhagic Stroke

Topic: Cerebrovascular Disease and Interventional Neurology

Director: Philip B. Gorelick, MD, MPH, FAAN, Grand Rapids, MI

Program Description:

Experts in neurocritical care and interventional neuroradiology will use case-based and didactic methods to present diagnosis and management options according to evidence-based guidelines for patients with intraparenchymal and subarachnoid hemorrhages.

Course Descriptions

Cerebrovascular Disease and Interventional Neurology

This program complements C98: Cerebrovascular Disease I: Prevention and C120: Cerebrovascular Disease III: Acute Ischemic Stroke, but covers independent topics.

Upon Completion:

Participants should be able to apply principles in everyday practice of diagnosis, medical management, and surgical/interventional treatment of patients with intraparenchymal hemorrhage and subarachnoid hemorrhage and become familiar with recent evidence-based guidelines.

Lecture/Faculty:

- ▶ **Diagnosis and Management of Intraparenchymal Hemorrhage**
Venkatesh Aiyagari, MD, Dallas, TX
- ▶ **Diagnosis and Management of Aneurysmal Subarachnoid Hemorrhage**
Roberta Novakovic, MD, Dallas, TX
- ▶ **Commonly Prescribed Non-Antithrombotic Drugs that May Lead to Intracranial Hemorrhage**
Philip B. Gorelick, MD, MPH, FAAN, Grand Rapids, MI

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Didactic, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Pharmacist, Advanced Practice Providers

Monday, April 18, 2016 3:30 p.m.–5:30 p.m.

C120 Cerebrovascular Disease III: Acute Ischemic Stroke

Topic: Cerebrovascular Disease and Interventional Neurology

Director: Philip B. Gorelick, MD, MPH, FAAN, Grand Rapids, MI

Program Description:

Didactic learning and case-based presentations will expose attendees to two key topics in acute ischemic stroke: administration of tPA with a perspective over the past 20 years by a senior vascular neurologist involved in the original NINDS tPA trials; and application of neurothrombectomy in everyday practice.

This program complements C98: Cerebrovascular Disease I: Prevention and C107: Cerebrovascular Disease II: Hemorrhagic Stroke, but covers independent topics.

Upon Completion:

Participants should be able to better understand diagnosis and management of acute ischemic stroke in everyday practice in relation to intravenous tPA administration; how eligibility criteria for tPA administration have changed over the years; what recent guidelines recommend; how time to administration of tPA is being reduced by pre-hospital and other system changes; proper application of neurothrombectomy in everyday practice; and new guidelines for application of neurothrombectomy.

Lecture/Faculty:

- ▶ **tPA Administration for Acute Ischemic Stroke: A 20-Year Perspective**
James C. Grotta, MD, FAAN, Houston, TX
- ▶ **Neurothrombectomy for Acute Ischemic Stroke**
Andrew M. Demchuk, MD, Calgary, AB, Canada

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Pharmacist, Advanced Practice Providers

Tuesday, April 19, 2016 6:30 a.m.–8:30 a.m.

C136 Controversies in Stroke Therapy

Topic: Cerebrovascular Disease and Interventional Neurology

Director: Steven R. Messe, MD, FAAN, FAHA, Philadelphia, PA

Program Description:

The management of patients with acute ischemic stroke and strategies for stroke prevention continue to evolve rapidly. Keeping abreast of advances in the field is a challenge. Several recent clinical trials will have substantial impact on stroke therapy. However, some published data are conflicting, and there are numerous remaining questions, leading to controversy regarding optimal management. Faculty will present a succinct, up-to-date, evidence-based approach to the comprehensive management of acute cerebral infarction and long-term vascular risk reduction. When an approach is unclear or unproven, faculty will discuss their experience with particular strategies. Presentations will provide concise, useful information that may be directly applied to the participant's practice. Discussions will include common yet challenging scenarios in stroke management. The session will provide ample opportunity for participants to ask questions or present their own cases to the faculty.

Upon Completion:

Participants should be knowledgeable about the optimal management of acute cerebral infarction, including patient selection for thrombolytic treatment, endovascular therapy, and surgical interventions; and develop a logical framework for implementing various long-term vascular risk reduction strategies, including selection of antithrombotic agents, lipid modifiers, antihypertensive therapies, and revascularization procedures.

Lecture/Faculty:

- ▶ **Controversies in Acute Stroke**
Steven R. Messe, MD, FAAN, FAHA, Philadelphia, PA
- ▶ **Controversies in Stroke Prevention**
Tanya N. Turan, MD, FAAN, Charleston, SC
- ▶ **Questions and Cases**
Faculty

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Tuesday, April 19, 2016 3:30 p.m.–5:30 p.m.

C159 Current Management of Incidental and Asymptomatic Cerebrovascular Lesions

Topic: Cerebrovascular Disease and Interventional Neurology

Director: Seemant Chaturvedi, MD, FAAN, FAHA, Miami, FL

Program Description:

In the past 10 years, the rate of neuroimaging has soared. Included in this category is both brain and neurovascular imaging. The increase in imaging has led to marked increase in the number of identified patients with asymptomatic or incidental neurovascular conditions. At the current time, there exists considerable controversy in the management of unruptured aneurysms and AVMs. In addition, the surgical treatment of asymptomatic carotid stenosis is receiving renewed scrutiny due to advances in medical therapy. Faculty will review the evaluation and management of these asymptomatic neurovascular conditions.

Upon Completion:

Participants should become aware of the most recent clinical trial and population-based data pertaining to asymptomatic neurovascular conditions, such as unruptured aneurysms and AVMs, and asymptomatic carotid stenosis; as well as gain an appreciation for which treatments are potentially cost-effective.

Lecture/Faculty:

- ▶ Approach to Unruptured Aneurysms and AVMs
Roberta Novakovic, MD, Dallas, TX
- ▶ Evaluation and Treatment of Asymptomatic Carotid Stenosis
Seemant Chaturvedi, MD, FAAN, FAHA, Miami, FL
- ▶ Case Studies
Faculty

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Interactive, Didactic, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

New Single-Rate Registration

You asked, and we listened: One low price helps us further our mission of promoting the highest quality patient-centered neurologic care by allowing you to sample a wider variety of programs, or participate in a track of courses geared toward your subspecialty.

Wednesday, April 20, 2016 6:30 a.m.–8:30 a.m.

C175 The Interface Between Infection and Cerebrovascular Disease

Topics: Cerebrovascular Disease and Interventional Neurology; Infectious Disease

Director: Reza Behrouz, DO, San Antonio, TX

Program Description:

Cerebrovascular disease is a complex condition that can have many etiologies. Infections of the brain, blood vessels, heart, and other organs may serve as risk factors for cerebrovascular disease, including ischemic or hemorrhagic strokes. Faculty will discuss the relationship of infections with stroke. Topics will include a general overview of the relationship between infection and cerebrovascular diseases, as well as the potential mechanisms involved in this association.

Upon Completion:

Participants should become familiar with the risk of stroke in patients with acute or chronic infections, and learn how to prevent strokes and other cerebrovascular diseases in patients with acute or chronic infection.

Lecture/Faculty:

- ▶ Infectious Cerebral Vasculitides
Reza Behrouz, DO, San Antonio, TX
- ▶ The Impact of Infection on Stroke Morbidity and Outcomes
Chad M. Miller, MD, Delaware, OH
- ▶ Bacterial Endocarditis and Cerebrovascular Disease
Brian Silver, MD, FAAN, Providence, RI

Core Competency: Patient Care

Teaching Style: Didactic, Interactive, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Thursday, April 21, 2016 6:30 a.m.–8:30 a.m.

C207 Stroke in Young Adults and Women

Topics: Cerebrovascular Disease and Interventional Neurology; Child Neurology and Developmental Neurology

Director: Aneesh B. Singhal, MD, FAAN, Boston, MA

Program Description:

Faculty will review the incidence, risk factors, mechanisms, outcomes, and long-term impact after stroke in young adults and women. The program will focus on ischemic stroke and cerebral venous sinus thrombosis, although certain aspects of hemorrhagic stroke will be addressed. Special emphasis will be given to cerebral arteriopathies such as dissection, vasculitis, and the reversible cerebral vasoconstriction syndromes, as well as hormonal risk factors, and the unique multi-disciplinary needs of young adults and women with stroke.

Course Descriptions

Cerebrovascular Disease and Interventional Neurology

Upon Completion:

Participants should be able to promptly recognize stroke in the young, develop cost-effective diagnostic strategies, deliver appropriate evidence-based acute and preventive treatment, and effectively manage the long-term consequences of stroke in young adults and women.

Lecture/Faculty:

- ▶ **Stroke in Young Adults: Overview; Arterial and Cardiac Causes**
Aneesh B. Singhal, MD, FAAN, Boston, MA
- ▶ **Stroke in Women; Stroke from Hypercoagulability**
Faculty
- ▶ **Case-based Discussion, Q & A**
Faculty

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Thursday, April 21, 2016 3:30 p.m.–5:30 p.m.

C227 Organize and Run a Successful Code Stroke System

Topic: Cerebrovascular Disease and Interventional Neurology

Director: Enrique C. Leira, MD, MS, FAAN, Iowa City, IA

Program Description:

In this era of time-dependent acute interventions, many institutions have organized code stroke systems to minimize in-hospital delays. A code stroke is a time-pressured multidisciplinary environment. Such high-pressure, high-stake team situations are at risk for critical errors that can result in serious adverse outcomes for patients. This program will integrate factual knowledge of acute stroke management with logistic and human-factors aspects of acute stroke care to foster favorable outcomes and increase job satisfaction.

Upon Completion:

Participants should be able to organize and successfully run a code stroke system by avoiding common pitfalls and barriers.

Lecture/Faculty:

- ▶ **Implementing a Code Stroke System in Different Hospital Settings**
William J. Meurer, MD, Ann Arbor, MI
- ▶ **Running a Code Stroke: Human Factors and Common Pitfalls**
Enrique C. Leira, MD, MS, FAAN, Iowa City, IA
- ▶ **Simulation of Code Strokes to Enhance Clinical Practice**
Waimei Amy Tai, MD, Newark, DE

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism

Teaching Style: Case Based, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Advanced Practice Providers

Child Neurology and Developmental Neurology

Sunday, April 17, 2016

6:30 a.m.–8:30 a.m.

C64 Child Neurology I

Topic: Child Neurology and Developmental Neurology

Director: Jonathan W. Mink, MD, PhD, FAAN, Rochester, NY

Program Description:

The care of neurologic disorders requires proper diagnosis, classification, and treatment. Improvement in classification and treatment is ongoing, aided by a better understanding of the unique aspects of neurologic disorders in children. Those who care for children with neurologic disorders must understand and incorporate these advances and insights into their therapies. In this course, faculty will review emerging approaches to treatment of headaches and movement disorders in children. Evidence-based medicine will be emphasized. Both basic and advanced information will be presented.

This program complements C74: Child Neurology II and C87: Child Neurology III, but covers independent topics.

Upon Completion:

Participants should be able to incorporate newer diagnostic and therapeutic approaches to the management of headaches and movement disorders in children.

Lecture/Faculty:

- ▶ **Movement Disorders in Children: When Is Deep Brain Stimulation an Option?**
Jonathan W. Mink, MD, PhD, FAAN, Rochester, NY
- ▶ **Diagnosis and Management of Headaches in Children**
Jennifer McVige, MD, Amherst, NY

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Sunday, April 17, 2016

1:00 p.m.–3:00 p.m.

C74 Child Neurology II

Topic: Child Neurology and Developmental Neurology

Director: Jonathan W. Mink, MD, PhD, FAAN, Rochester, NY

Program Description:

The care of neurologic disorders requires proper diagnosis, classification, and treatment. Improvement in classification and treatment is ongoing, aided by a better understanding of the pathophysiologic and molecular mechanisms underlying these disorders. Those who care for children with neurologic disorders must understand and incorporate these advances and insights into their therapies. Faculty will review both basic and advanced information and emphasize evidence-based medicine to focus on modern diagnostic approaches to neurogenetic disorders and new medications for treating epilepsy in children.

This program complements C64: Child Neurology I and C87: Child Neurology III, but covers independent topics.

Upon Completion:

Participants should be able to incorporate newer diagnostic and therapeutic approaches to the evaluation and management of children with genetic disorder and epilepsy.

Lecture/Faculty:

- ▶ Neurogenetic Testing in Children
Faculty
- ▶ Newer Options for Treating Epilepsy in Children
Howard P. Goodkin, MD, PhD, Charlottesville, VA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Sunday, April 17, 2016

1:00 p.m.–3:00 p.m.

C79 Emergency Neurology Topics: Status Epilepticus and Pediatric Neurology Emergencies

Topics: Neuro Trauma, Critical Care, and Sports Neurology; Child Neurology and Developmental Neurology; General Neurology

Director: Laurie Gutmann, MD, FAAN, Iowa City, IA

See complete course description on page 87 »

Sunday, April 17, 2016

3:30 p.m.–5:30 p.m.

C87 Child Neurology III

Topic: Child Neurology and Developmental Neurology

Director: Jonathan W. Mink, MD, PhD, FAAN, Rochester, NY

Program Description:

The care of neurologic disorders requires proper diagnosis, classification, and treatment. Improvement in classification and treatment is ongoing, aided by a better understanding of the pathophysiologic and molecular mechanisms underlying these disorders. Faculty will review advanced information and emphasize evidence-based medicine to focus on recent progress in diagnosis and treatment of leukodystrophies and treatment of other neurodegenerative disorders in children.

This program complements C64: Child Neurology I and C74: Child Neurology II, but covers independent topics.

Upon Completion:

Participants should be able to incorporate diagnostic and therapeutic approaches to the management of leukodystrophies and other neurodegenerative disease in children.

Lecture/Faculty:

- ▶ Diagnosis and Management of Leukodystrophies
Adeline Vanderver, MD, Washington, DC
- ▶ Emerging Therapies for Childhood Neurodegenerative Diseases
Erika Fullwood Augustine, MD, Rochester, NY

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Monday, April 18, 2016

1:00 p.m.–3:00 p.m.

C109 Pediatric MS: Diagnosis and Treatment

Topics: MS and CNS Inflammatory Disease; Child Neurology and Developmental Neurology

Director: John W. Rose, MD, FAAN, Salt Lake City, UT

See complete course description on page 83 »

New Dates: Friday through Thursday

While previous Annual Meetings have traditionally run Saturday through Saturday, the 2016 meeting will begin on a Friday and end on a Thursday. This new, condensed timeframe creates opportunities for some exciting changes while still allowing you to completely customize your schedule to your interests and needs.

Course Descriptions

Child Neurology and Developmental Neurology

Tuesday, April 19, 2016

6:30 a.m.–8:30 a.m.

C135 Neuro Flash: Child Neurology

Topics: Child Neurology and Developmental Neurology;
Movement Disorders

Director: Erika Fullwood Augustine, MD, Rochester, NY

Program Description:

The field of child neurology is changing rapidly. This program will provide a fast-paced update on the latest discoveries through review of key publications, new treatments, and practice guidelines from the prior year. The evidence update will be put into clinical context through use of cases to facilitate discussion.

Upon Completion:

Participants should be able to identify and implement new breakthroughs in the field of child neurology that impact day to day practice, and be able to locate and use new practice guidelines to inform medical decision-making.

Lecture/Faculty:

- ▶ **Child Neurology Evidence Update**
Erika Fullwood Augustine, MD, Rochester, NY
Robert Thompson-Stone, MD, Rochester, NY

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Audience Participation, Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Child Neurologist, Advanced Practice Providers

Tuesday, April 19, 2016

3:30 p.m.–5:30 p.m.

C156 EEG in Children: Developmental Maturation, Variants, Epilepsy Syndromes, and Identification of Surgical Candidates

Topics: Epilepsy/Clinical Neurophysiology (EEG);
Child Neurology and Developmental Neurology

Director: Tobias Loddenkemper, MD, Boston, MA

See complete course description on [page 50 »](#)

Wednesday, April 20, 2016

1:00 p.m.–3:00 p.m.

C185 Autism Spectrum Disorders—What We Know and Where We Are Going

Topic: Child Neurology and Developmental Neurology

Director: Patricia K. Crumrine, MD, Pittsburgh, PA

Program Description:

Faculty will emphasize the clinical application of the DSM-5 for the diagnosis of ASD, identification of genetic disorders with ASD

and how to test for these, the utility of diagnosing epilepsy in this population, and what AEDs are useful.

Upon Completion:

Participants should be able to understand how to apply the DSM-5 criteria in diagnosing ASD, recognize some specific genetic disorders associated with ASD and how to test for these, and know which epilepsy syndrome are associated with ASD and which AEDs are useful and tolerated in patients with ASD.

Lecture/Faculty:

- ▶ **Clinical and Research Use of DSM-5 in Autism Spectrum Disorder**
Faculty
- ▶ **Genetics of Autism Spectrum Disorder: What We Know and How to Use It**
Faculty
- ▶ **Recognition and Treatment of Epilepsy in Autism Spectrum Disorder**
Patricia K. Crumrine, MD, Pittsburgh, PA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Thursday, April 21, 2016

6:30 a.m.–8:30 a.m.

C207 Stroke in Young Adults and Women

Topics: Cerebrovascular Disease and Interventional Neurology;
Child Neurology and Developmental Neurology

Director: Aneesh B. Singhal, MD, FAAN, Boston, MA

See complete course description on [page 43 »](#)

Epilepsy/Clinical Neurophysiology (EEG)

Friday, April 15, 2016

1:00 p.m.–5:00 p.m.

C11 Neurophysiologic Intraoperative Monitoring Skills Workshop (registration required)

Topic: Epilepsy/Clinical Neurophysiology (EEG)

Director: Gloria Galloway, MD, FAAN, Columbus, OH

Program Description:

Neurophysiologic intraoperative monitoring (NIOM) uses a variety of modalities to reduce morbidity in many types of surgeries. In this skills workshop, didactic instruction, case presentation, and live demonstrations for the advanced practitioner will provide participants with an understanding on how NIOM is currently performed and

interpreted. Several monitoring modalities will be included along with case discussions.

Upon Completion:

Participants can gain some understanding about the types of intraoperative monitoring modalities performed, technical limitations of monitoring, and interpretation principles, along with updates where appropriate.

Lecture/Faculty:

- ▶ **Somatosensory Evoked Potentials**
Aatif M. Husain, MD, Durham, NC
- ▶ **Motor Evoked Potentials**
Marc R. Nuwer, MD, PhD, FAAN, Los Angeles, CA
- ▶ **Pedicle Screw Stimulation Techniques**
Gloria Galloway, MD, FAAN, Columbus, OH
- ▶ **Brainstem Auditory Evoked Potentials**
Alan D. Legatt, MD, PhD, FAAN, Bronx, NY
- ▶ **EEG, Electrocorticography, and Cortical Localization**
Marc R. Nuwer, MD, PhD, FAAN, Los Angeles, CA
- ▶ **Skills/SEPS**
Aatif M. Husain, MD, Durham, NC
- ▶ **Skills/BAER**
Alan D. Legatt, MD, PhD, FAAN, Bronx, NY

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 3.75

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Technologists

Saturday, April 16, 2016 6:30 a.m.–8:30 a.m.

C24 Clinical EEG I

Topic: Epilepsy/Clinical Neurophysiology (EEG)

Director: Selim R. Benbadis, MD, Tampa, FL

Program Description:

Faculty will provide an overview of the principles underlying the practice of clinical EEG. The presentations will emphasize aspects that are crucial to the practice of reading EEGs in practice.

Specific topics will be common normal patterns, normal variants that are commonly over-interpreted, artifacts, and guidance on how to generate meaningful EEG reports.

This program complements C37: Clinical EEG II and C48: Clinical EEG III, but covers independent topics.

Upon Completion:

Participants should be able to: distinguish normal pattern from abnormalities; avoid common pitfalls, such as misinterpretation of artifacts and normal variants; and generate quality reports.

Lecture/Faculty:

- ▶ **Normal EEG and the Range of Normal**
John M. Stern, MD, FAAN, Los Angeles, CA
- ▶ **Myths About Phase Reversals and Errors in Interpretation**
Selim R. Benbadis, MD, Tampa, FL
- ▶ **Artifacts and How to Avoid Overcalling Them**
Susan T. Herman, MD, FAAN, Boston, MA
- ▶ **How to Write a Meaningful EEG Report**
Selim R. Benbadis, MD, Tampa, FL

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Audience Participation, Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, EEG Technologist

Saturday, April 16, 2016 1:00 p.m.–3:00 p.m.

C37 Clinical EEG II

Topic: Epilepsy/Clinical Neurophysiology (EEG)

Director: Susan T. Herman, MD, FAAN, Boston, MA

Program Description:

For this course, faculty will provide an overview of the principles underlying the practice of clinical EEG, including routine EEG in adults and children, long-term ambulatory and video-EEG monitoring in epilepsy, and EEG in critically ill patients. In Clinical EEG II, faculty will discuss indications for EEG, normal EEG and abnormal EEG in neonates and children, and EEG in the diagnosis and management of encephalopathy and coma. Multiple examples of age-related EEG changes, focal abnormalities, and diffuse abnormalities will be presented. The session will be followed by an interactive review of unknown EEG samples.

This program complements C24: Clinical EEG I and C48: Clinical EEG III, but covers independent topics.

Upon Completion:

Upon completion, participants should be able to appropriately order EEG studies in the diagnostic evaluation of neurologic disorders, avoiding inappropriate use of the EEG; identify normal and abnormal EEG patterns in neonates, children, adolescents, adults, and the elderly; and correctly interpret focal and diffuse EEG abnormalities in patients with epilepsy, focal brain disorders, and diffuse brain disorders.

Lecture/Faculty:

- ▶ **Focal and Generalized EEG Abnormalities in Adults**
Susan T. Herman, MD, FAAN, Boston, MA
- ▶ **Normal and Abnormal Neonatal and Pediatric EEG**
Tammy Tsuchida, MD, PhD, Washington, DC
- ▶ **EEG Unknowns**
Susan T. Herman, MD, FAAN, Boston, MA
Tammy Tsuchida, MD, PhD, Washington, DC

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Course Descriptions

Epilepsy/Clinical Neurophysiology (EEG)

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Advanced Practice Providers

Saturday, April 16, 2016 3:30 p.m.–5:30 p.m.

C48 Clinical EEG III

Topic: Epilepsy/Clinical Neurophysiology (EEG)

Director: Susan T. Herman, MD, FAAN, Boston, MA

Program Description:

In this course, faculty will provide an overview of the principles underlying the practice of clinical EEG, including routine EEG in adults and children, long-term ambulatory and video-EEG monitoring in epilepsy, and EEG in critically ill patients. In Clinical EEG III, faculty will discuss EEG in the diagnosis of epilepsy in adults and children, including routine EEG, ambulatory EEG, and long-term video EEG monitoring. Topics will include techniques to increase the yield of epileptiform activity, identification of interictal and ictal epileptiform patterns, and EEG findings in common and uncommon epilepsy syndromes. Multiple examples of focal and generalized epileptiform patterns will be presented. The session will be followed by an interactive review of unknown EEG samples.

This program complements C24: Clinical EEG I and C37: Clinical EEG II, but covers independent topics.

Upon Completion:

Upon completion, participants should be able to appropriately order EEG studies in the diagnostic evaluation of epilepsy; identify interictal and ictal epileptiform patterns in neonates, children, adolescents, adults, and the elderly; and correctly interpret focal and generalized epileptiform patterns to aid in seizure and epilepsy syndrome classification.

Lecture/Faculty:

- ▶ **Interictal and Ictal EEG in Adults**
Katherine H. Noe, MD, PhD, Phoenix, AZ
- ▶ **Interictal and Ictal EEG in Children**
Tobias Loddenkemper, MD, Boston, MA
- ▶ **EEG Unknowns in Epilepsy**
Tobias Loddenkemper, MD, Boston, MA
Katherine H. Noe, MD, PhD, Phoenix, AZ

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Audience Participation, Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Advanced Practice Providers

Saturday, April 16, 2016 6:30 p.m.–9:30 p.m.

C57 Case Studies: How to Analyze Spells by Video-EEG

Topic: Epilepsy/Clinical Neurophysiology (EEG)

Director: Joseph F. Dratzkowski, MD, FAAN, Phoenix, AZ

Program Description:

Seizure-like spells in adults and children can be challenging for neurologic practitioners. Faculty will present a case-based format for typical and atypical spells presenting as seizures, making key diagnostic points using V-EEG analysis in a practical manner.

Upon Completion:

Participants should be able to understand the utility of the video-EEG, gain knowledge about typical and atypical features of seizure-like events that can be used in the diagnosis and treatment of seizures and imitators, interact with colleagues having similar interests.

Lecture/Faculty:

- ▶ **Spells in Children**
Elaine C. Wirrell, MD, Rochester, MN
- ▶ **Simeology of Spells: Tips to Make the Right Diagnosis**
Barbara C. Jobst, MD, FAAN, Lebanon, NH
- ▶ **Spells in Adults**
Joseph F. Dratzkowski, MD, FAAN, Phoenix, AZ
- ▶ **EMU: Risk and Reward**
Robert E. Hogan, MD, St. Louis, MO

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Audience Participation, Video Examples, Case Based, Didactic, Interactive

CME Credits: 3.0

Recommended Audience: Trainee, General Neurologist, Non-Neurologist

Sunday, April 17, 2016 1:00 p.m.–5:30 p.m.

C83 \$ Epilepsy Skills Workshop (registration required)

Topic: Epilepsy/Clinical Neurophysiology (EEG)

Director: William O. Tatum, IV, DO, FAAN, Tampa, FL

Program Description:

In an era of technology, an often-lost art in the diagnosis and treatment of epilepsy is the importance of the clinical hands-on component for patient care. This workshop will combine case studies with small group workstations allowing attendees to learn practical information about seizure and epilepsy diagnosis and treatment at an individual level. Topics include EEG, video EEG interpretation, and medical and surgical decisions making with respect to optimized quality management. Small groups will be guided through the diagnostic and therapeutic process with a faculty facilitator emphasizing clinical pearls in the history, examination, and diagnostic

evaluation. Faculty will emphasize skills pertaining to common EEG errors, misinterpretations on video EEG monitoring, and the hands-on management of the status epilepticus patient using case simulation protocols and Sim man patients along with hands-on demonstration of electrical stimulation programming.

Upon Completion:

Participants should be familiar with the essential skills required for effective emergency management of seizures in the hospital and bedside; the rapid identification of commonly misdiagnosed EEG patterns and seizure semiology patterns in order to make accurate diagnoses; effectively address common reasons why patients with seizures and epilepsy present to the clinic; understand newly emerging definitions and terminology in patients with seizures as well as integrate newer forms of treatment including new antiseizure drugs and formulations, surgical techniques and neurostimulation techniques into the treatment regimens of both the pediatric and adult patient with epilepsy.

Lecture/Faculty:

- ▶ EEG Reading
Elizabeth Waterhouse, MD, FAAN, Richmond, VA
- ▶ Video-EEG Monitoring; Case Studies
Joseph F. Drazkowski, MD, FAAN, Phoenix, AZ
- ▶ Epilepsy Clinic
William O. Tatum, IV, DO, FAAN, Tampa, FL
- ▶ ICU Managment
Joseph I. Sirven, MD, FAAN, Phoenix, AZ
Matthew T. Hoerth, MD, Phoenix, AZ
- ▶ Pediatric Epilepsy
Raj D. Sheth, MD, FAAN, Jacksonville, FL

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Case Based, Didactic, Interactive, Audience Participation, Simulation

CME Credits: 4.25

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Neurosurgeon, Pediatric Neurologist

Monday, April 18, 2016 6:30 a.m.–8:30 a.m.

C100 Neuro Flash: Epilepsy

Topic: Epilepsy/Clinical Neurophysiology (EEG)

Director: Joseph I. Sirven, MD, FAAN, Phoenix, AZ

Program Description:

Faculty will use a “headline news” approach to highlight important epilepsy clinical information, and a rapid fire, multi-topic case-based approach to provide salient pithy updates on numerous epilepsy topics, including new treatments and when to use them, how to manage seizure emergencies, the evidence base for the risks and benefits of cannabis in epilepsy patients, and diagnosing and treating immune causes of epilepsy.

Upon Completion:

Participants should be able to list or identify all currently available medication and device treatments for epilepsy; understand the management of acute seizure emergencies; know when to consider immune based diagnoses and treatments for epilepsy; know how to counsel on driving laws for epilepsy; and understand where current thought stands on cannabis for epilepsy.

Lecture/Faculty:

- ▶ Cases 1–6
Joseph I. Sirven, MD, FAAN, Phoenix, AZ
Matthew T. Hoerth, MD, Phoenix, AZ

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Monday, April 18, 2016 3:30 p.m.–5:30 p.m.

C123 Status Epilepticus

Topic: Epilepsy/Clinical Neurophysiology (EEG)

Director: Frank W. Drislane, MD, FAAN, Boston, MA

Program Description:

While generalized convulsive status epilepticus (GCSE) is relatively easily diagnosed, recognition of non-convulsive SE is often poor, especially in medically and neurologically ill patients in ICUs. Diagnosis of SE requires knowledge of many clinical syndromes. This course will review many different etiologies and presentations of status epilepticus (SE), including convulsive, non-convulsive, and myoclonic SE, which must be evaluated and treated differently. There will be plenty of information on the proper interpretation of EEGs in the diagnosis of SE, including during prolonged EEG monitoring, such as in the ICU. Management of SE has become more complicated than simply choosing “the” drug for convulsive SE. Faculty will present detailed descriptions of the remarkably varied treatments that are emerging for the most refractory SE cases.

Upon Completion:

Participants should be able to diagnose status epilepticus in urgent and unusual presentations; integrate clinical and EEG findings to make a correct diagnosis; recognize and treat cases of nonconvulsive status, avoiding both under-recognition and over-treatment; have a command of the utility and practicalities of EEG monitoring in the management of SE in very ill ICU patients; use several more “aggressive” treatments effectively for the most refractory SE cases.

Lecture/Faculty:

- ▶ Non-convulsive and Unusual Forms of Status Epilepticus
Frank W. Drislane, MD, FAAN, Boston, MA
- ▶ Use and Interpretation of EEG Monitoring for Seizures and Status Epilepticus in the ICU
Lawrence J. Hirsch, MD, FAAN, New Haven, CT

Course Descriptions

Epilepsy/Clinical Neurophysiology (EEG)

- **Treatment of Refractory Status Epilepticus**
Stephan Schuele, MD, FAAN, Chicago, IL

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Tuesday, April 19, 2016 6:30 a.m.–8:30 a.m.

C134 Emerging Therapies in Epilepsy

Topic: Epilepsy/Clinical Neurophysiology (EEG)

Director: Carl W. Bazil, MD, PhD, FAAN, New York, NY

Program Description:

Faculty will address practical, day-to-day issues in treating patients with epilepsy, specifically with regard to the newest and emerging therapies. The program will highlight three areas: the most recently approved anticonvulsants, neuromodulation techniques for refractory epilepsy, and the use of medical marijuana. New information specifically regarding the newest AEDs (use in monotherapy and broader spectrum, emerging adverse effect information) and regarding generic equivalency is crucial in widely and safely integrating these into an epilepsy practice. With two approved devices for neuromodulation (vagus nerve stimulation and responsive neurostimulator), the use especially of the latter is increasing. Perhaps most controversial currently is the use of medical marijuana for epilepsy. Clinicians must be ready to answer patient questions related to the latest information on possible efficacy, as well as adverse effects.

Upon Completion:

Participants should have greater familiarity with the properties of the newest AEDs, including the latest indications and adverse effect information, and understand the role of newer AEDs in the treatment of refractory status epilepticus. Neurostimulation devices are appropriate and can be helpful in patients with refractory epilepsy; participants will have greater familiarity with appropriate referral and use of these treatments. Finally, participants will be armed with the most recent, scientific evidence on the efficacy of marijuana in epilepsy.

Lecture/Faculty:

- **The Newest AEDs: Emerging Profiles and Indications**
Carl W. Bazil, MD, PhD, FAAN, New York, NY
- **Neuromodulatory Techniques in the Treatment of Refractory Epilepsy**
Christianne N. Heck, MD, Los Angeles, CA
- **Medical Marijuana and Cannabinoids for Epilepsy: The Hype and the Reality**
Daniel Friedman, MD, New York, NY

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Tuesday, April 19, 2016 3:30 p.m.–5:30 p.m.

C156 EEG in Children: Developmental Maturation, Variants, Epilepsy Syndromes, and Identification of Surgical Candidates

Topics: Epilepsy/Clinical Neurophysiology (EEG); Child Neurology and Developmental Neurology

Director: Tobias Loddenkemper, MD, Boston, MA

Program Description:

Diagnosis and treatment of seizure disorders is a major component of neurology practice in children and adolescents. Correct analysis and interpretation of pediatric EEG is critical to making an accurate diagnosis and plan of care for treatment of seizures. Faculty will focus on basic and advanced pediatric EEG interpretation. Faculty will encourage audience participation and present brief case vignettes commonly seen in the office and epilepsy monitoring units (with videos when appropriate) followed by EEG tracings.

Upon Completion:

Participants should develop core skills in reading EEG in children and adolescents; be familiar with major developmental landmarks and physiologic variants during EEG maturation (often misdiagnosed as epileptiform abnormalities), neonatal seizures, EEG findings in classical epilepsy syndromes, and early selection of epilepsy surgery candidates; and learn medical management of classic pediatric epilepsy syndromes as well as decision-making steps in the selection of pediatric surgical candidates.

Lecture/Faculty:

- **EEG Developmental Landmarks, Neonatal Seizures, Physiologic Variants in Awake and Sleep, and Artifacts**
Sanjeev V. Kothare, MD, New York, NY
- **EEG in Classic Pediatric Epilepsy Syndromes: Making Correct Management Decisions**
Jeffrey R. Buchhalter, MD, FAAN, Calgary, AB, Canada
- **Selecting Candidates for Epilepsy Surgery: Unique Age-related EEG Findings in Partial Epilepsy in Children**
Tobias Loddenkemper, MD, Boston, MA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Case Based, Interactive, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Wednesday, April 20, 2016 6:30 a.m.–8:30 a.m.

C169 Clinical Epilepsy I

Topic: Epilepsy/Clinical Neurophysiology (EEG)

Director: Tracey A. Milligan, MD, FAAN, Boston, MA

Program Description:

Faculty will comprehensively cover aspects of diagnosing and managing patients with seizure disorders; review the new ILAE classification scheme, Epilepsy Quality Measures, and the primary goals of accurate diagnosis and selection of appropriate first-line medications; address common psychiatric comorbidities; review the latest advances in each topic discussed; emphasize issues most useful to clinical practice by using a case-based approach; and use video case presentations to illustrate the differential diagnosis of seizure-like events and how to classify seizures.

This program complements C178: Clinical Epilepsy II and C191: Clinical Epilepsy III, but covers independent topics.

Upon Completion:

Participants should be able to efficiently and thoroughly evaluate a patient presenting with seizures; accurately apply the latest approved classification system for epilepsy; choose appropriate first-line treatments; and recognize and know how to evaluate common psychiatric comorbidities.

Lecture/Faculty:

- ▶ **Is Epilepsy the Diagnosis? Case Studies and Videos**
Tracey A. Milligan, MD, FAAN, Boston, MA
- ▶ **Psychiatric Co-morbidities: What All Neurologists Need to Know in the Management of the Seizure Disorder**
Andres M. Kanner, MD, Miami, FL
- ▶ **Individualizing AED Choices**
Jacqueline French, MD, FAAN, New York, NY

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Interactive, Audience Participation, Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Wednesday, April 20, 2016 1:00 p.m.–3:00 p.m.

C178 Clinical Epilepsy II

Topic: Epilepsy/Clinical Neurophysiology (EEG)

Director: Page B. Pennell, MD, Boston, MA

Program Description:

Faculty will review and discuss complicated aspects of diagnosing and treating patients with epilepsy with a focus on special patient populations. Epilepsy is a chronic but dynamic disorder that requires unique considerations as patients transition through different life

stages. Faculty will present key lessons from the pediatric epilepsy clinic, including the latest available genetic testing, applicable to all patients. Female adolescents and adults require heightened attention to selection of anti-epileptic drug type and dose. Discussions will include how to best balance maternal seizure control against teratogenic risks of the medications. Elderly patients presenting with their first seizure or continuing epilepsy management demand another set of diagnostic and treatment considerations, especially given the higher prevalence of comorbidities, of interacting medications, and the increased sensitivity to adverse effects. Faculty will review the latest data in each topic and use a case-based approach to highlight key principles.

This program complements C169: Clinical Epilepsy I and C191: Clinical Epilepsy III, but covers independent topics.

Upon Completion:

Participants should be knowledgeable about the varied pediatric clinical epilepsy syndromes, how to apply them to patients of all ages, and when to order genetic testing, what to order, and why; be informed about appropriate birth control counseling in women with epilepsy and how to select AEDs and dosing prior to pregnancy, as well as how to manage medications during pregnancy and the peripartum period; and become familiar with the specific etiologies to consider in the elderly patient presenting with seizures, what key variables to consider when deciding if medications should be started and, if so, how to select the best antiepileptic drug for members of this complicated specialty population.

Lecture/Faculty:

- ▶ **Genetics and Lifetime Lessons from the Pediatric Epilepsy Clinic**
Katherine C. Nickels, MD, Rochester, MN
- ▶ **Pregnancy in Women with Epilepsy: Optimizing Maternal and Child Outcomes**
Page B. Pennell, MD, Boston, MA
- ▶ **Epilepsy in the Elderly: To Treat or Not to Treat**
Ilo E. Leppik, MD, FAAN, Minneapolis, MN

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Wednesday, April 20, 2016 3:30 p.m.–5:30 p.m.

C191 Clinical Epilepsy III

Topic: Epilepsy/Clinical Neurophysiology (EEG)

Director: Page B. Pennell, MD, Boston, MA

Program Description:

Faculty will review and discuss complicated aspects of diagnosing and treating patients with epilepsy, with a focus on tertiary aspects; discuss recognition of acute repetitive seizures and status epilepticus in their various forms, from subtle to convulsive; review

Course Descriptions

Epilepsy/Clinical Neurophysiology (EEG)

management options in various settings, including in the home, the emergency room, inpatient, and the intensive care unit; discuss the latest definition for drug resistant epilepsy and how to apply it to an individual patient; and review in detail therapeutic options beyond antiepileptic drugs, including diet, devices, surgery and marijuana. Faculty will review the latest advances in each topic discussed, use a case-based approach to emphasize issues most useful to clinical practice, and present video case presentations to illustrate different seizure types.

This program complements C169: Clinical Epilepsy I and C178: Clinical Epilepsy II, but covers independent topics.

Upon Completion:

Participants should be able to recognize when a patient meets criteria for acute repetitive seizures, status epilepticus, and drug resistant epilepsy; know the latest therapeutic approaches to these patients in a variety of settings, including home, outpatient clinic, and hospital; recognize when to consider treatments in addition to AEDs and which ones to consider given a specific patient seizure type and clinical scenario; become more familiar with classifying seizures through video presentations.

Lecture/Faculty:

- ▶ **Acute Repetitive Seizures and Status Epilepticus: From Home to the ICU and Back**
Suzette M. LaRoche, MD, FAAN, Asheville, NC
- ▶ **Beyond AEDs—Surgery, Devices, Diet, or Marijuana?**
Elson L. So, MD, FAAN, Rochester, MN
- ▶ **Video-EEG Case Presentations: You Make the Call**
William O. Tatum, IV, DO, FAAN, Tampa, FL

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Neurointensivists, Advanced Practice Providers

Thursday, April 21, 2016 1:00 p.m.–3:00 p.m.

C222 Critical Care EEG Monitoring

Topics: Epilepsy/Clinical Neurophysiology (EEG); Neuro Trauma, Critical Care, and Sports Neurology

Director: Aatif M. Husain, MD, Durham, NC

Program Description:

This course will review important aspects of continuous EEG (cEEG) monitoring in critically ill patients. This will include a review of the frequency with which seizures are detected in this patient population. Additionally, faculty will present information about the appropriate patient type to monitor and how long to monitor. Interpretation of cEEG monitoring can be significantly different than interpreting other types of EEG data, and faculty will explain how to recognize artifacts and differentiate them from seizures, as this is a frequent source of errors and misinterpretation. The significance of many EEG patterns

is uncertain in this patient population, and faculty will review this pattern and present nuanced interpretation of these patterns, as well as cover quantitative analysis programs frequently used in analyzing cEEG data along with various ways to evaluate cEEG data quantitatively.

Upon Completion:

Participants should be able to recognize appropriate patients who may benefit from cEEG monitoring, appreciate the nuanced interpretation of cEEG data and differentiate artifacts from cerebral activity, and recognize the value and limitations of quantitative analysis of cEEG and apply this to their practice settings.

Lecture/Faculty:

- ▶ **ICU EEG Monitoring: Why, When, and for Whom**
Aatif M. Husain, MD, Durham, NC
- ▶ **EEG Patterns in the ICU**
Suzette M. LaRoche, MD, FAAN, Asheville, NC
- ▶ **Quantitative EEG: Uses and Limitations**
Nicholas S. Abend, MD, Philadelphia, PA

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Didactic, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

General Neurology

Friday, April 15, 2016

8:00 a.m.–5:00 p.m.

C3 Maintenance of Certification Exam Preparation Course (registration required)

Topic: General Neurology

Director: Ericka P. Simpson, MD, Houston, TX

Program Description:

This program is intended to provide information to help neurologists prepare for their Maintenance of Certification (MOC) exam. The presentations will be given by invited speakers with expertise or specialization in the topics presented. The majority of speakers have taken and passed the recertification examination. The areas of neurology that will be covered include those that are both heavily weighted on the ABPN examination and those areas that have recently been added to the examination, including interpersonal and communication issues, systems-based practice issues, diagnostic procedures, and neuro-rehabilitation. In addition, information will be available by representatives from the ABPN and AAN on the new requirements for admission to the MOC examination and enrollment in the Continuous Maintenance of Certification (C-MOC) after recertification during the breadth of the conference.

The program will incorporate pre-test questions for each presentation to assist attendees in identifying areas that require focused study. Presentations and syllabus materials will be provided and include resources for ongoing study and review.

This course has been approved by the ABPN to provide 7.5 Self-assessment CME credits.

Upon Completion:

Upon completion of this program, participants should be able to identify areas of neurology that require more focused study and review in preparation for the re-certification examination; self-assess knowledge after completion of the educational program to further focus study and review; and demonstrate improved competency and performance in clinical practice and patient outcomes based upon application of new and reviewed information derived from the educational program in their clinical practice, as well as for successful recertification and continued maintenance.

Attendees will be provided information regarding the new requirements for MOC examination admission and continuing maintenance of examination including completion of CME credits, self-assessment activities, and completion of an Improvement in Medical Practice (PIP) unit.

Lecture/Faculty:

- ▶ **Movement Disorders**
Eugene C. Lai, MD, PhD, Houston, TX
- ▶ **Dementia, Disease of Aging, and Cognitive Neurology**
Eugene C. Lai, MD, PhD, Houston, TX
- ▶ **Neuromuscular Disorders**
Vern C. Juel, MD, FAAN, Durham, NC
- ▶ **Epilepsy/Sleep**
Katherine H. Noe, MD, PhD, Phoenix, AZ
- ▶ **Demyelinating/CNS Inflammatory Disease**
Anthony Traboulsee, MD, Vancouver, BC, Canada
- ▶ **Headache and Pain**
Amaal J. Starling, MD, Phoenix, AZ
- ▶ **Stroke/Vascular Neurology, Critical Illness, Trauma, and Neuro-infection**
Faculty
- ▶ **Ethics, Systems-based Practice, Interpersonal Communication, and Neuro-rehabilitation**
Joseph S. Kass, MD, JD, FAAN, Houston, TX

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Audience Participation, Didactic, Interactive, Case Based

Self-assessment CME Credits: 7.5

Recommended Audience: General Neurologist, Specialist Neurologist, Advanced Practice Providers

Friday, April 15, 2016

3:30 p.m.–5:30 p.m.

C12 Advanced Neurologic Coding

Topics: Practice/Policy;
General Neurology

Director: Peter D. Donofrio, MD, FAAN, Nashville, TN

See complete course description on [page 113 »](#)

Saturday, April 16, 2016

6:30 a.m.–8:30 a.m.

C18 Multiple Sclerosis Overview: Basic and Translational Science

Topics: MS and CNS Inflammatory Disease;
General Neurology

Director: Michael K. Racke, MD, Columbus, OH

See complete course description on [page 81 »](#)

Saturday, April 16, 2016

6:30 a.m.–8:30 a.m.

C23 Borderlands of Neurology and Internal Medicine: Chalk Talk

Topic: General Neurology

Director: Martin A. Samuels, MD, MACP, FAAN, Boston, MA

Program Description:

One of the most important aspects of neurology is its interfaces with multiple other medical specialties within the general field of internal medicine. Much of the practice of neurology consists of interacting with specialists over the care of patients who fall into this borderland between neurology and the rest of medicine. Some of these areas are neurocardiology, neurohematology, neurogastroenterology, neurorheumatology, and the neurologic aspect of electrolyte disturbances. Cases will be presented which highlight important aspects of neurological medicine. Attendees will participate actively in solving the cases and then will be exposed to the thinking that underlies the solution.

Upon Completion:

Upon completions the participant should be able to apply basic knowledge of general internal medicine and its major specialties to the patient with a neurological complaint. The participant will be able to approach a patient with a neurological complication of a general medical problem such that she can assess the problem accurately and create a set of recommendations for further evaluation and treatment to the treating doctors. The participant will be able to apply general principles used to analyze the case studies presented in the course to a large array of common neurological problems seen in patients with general medical diseases.

Lecture/Faculty:

- ▶ **Borderlands of Neurology and Internal Medicine: Chalk Talk**
Martin A. Samuels, MD, MACP, FAAN, Boston, MA

Course Descriptions

General Neurology

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Saturday, April 16, 2016 1:00 p.m.–3:00 p.m.

C36 Neuroimaging for the General Neurologist: Spine and Peripheral Nerve I

Topic: General Neurology

Director: Joshua Klein, MD, PhD, Boston, MA

Program Description:

This program is designed to increase clinician comfort and competence in reviewing neuroimaging studies of the spine and peripheral nerves to provide a practical and systematic approach that will allow for recognition of degenerative and vascular conditions.

This program complements C47: Neuroimaging for the General Neurologist: Spine and Peripheral Nerve II, but covers independent topics.

Upon Completion:

Participants should be able to systematically review images of the spine and detect degenerative and vascular abnormalities.

Lecture/Faculty:

- **Approach to Spine and Peripheral Nerve Imaging, Including Degenerative Disease and Trauma**
Joshua Klein, MD, PhD, Boston, MA
- **Vascular Imaging of the Spine**
Ashutosh P. Jadhav, MD, Pittsburgh, PA

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Neurology Allied Practitioners

Saturday, April 16, 2016 1:00 p.m.–3:00 p.m.

C39 Autoimmune Neurology I

Topic: General Neurology

Director: Maarten J. Titulaer, MD, PhD, Rotterdam, Netherlands

Program Description:

Recent years have been very exciting for autoimmune neurology: 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, neuropsychiatric, and oncological), from encephalitis to the neuromuscular junction; and present

clinical pearls aiding diagnosis of autoimmune and paraneoplastic neurologic disorders, including differential diagnosis, investigations, and treatment. This course will cover the basics, and go somewhat beyond, but be less advanced than the Autoimmune Neurology II course. Although both courses stand alone, overlap is minimized, and physicians are encouraged to complete both courses.

This program complements C50: Autoimmune Neurology II, but covers independent topics.

Upon Completion:

Participants should be able to understand the autoantibody nomenclature; recognize autoimmune neurologic disorders; know the neurologic and cancer associations of the autoantibodies; know the pitfalls in antibody testing; know the appropriate oncological evaluations for paraneoplastic neurologic disorders; and know some treatment regimens for autoimmune neurologic disorders.

Lecture/Faculty:

- **Intro—Overview of Autoimmune Neurology**
Maarten J. Titulaer, MD, PhD, Rotterdam, Netherlands
- **Classical Paraneoplastic Neurological Disorders**
Andrew McKeon, MD, Rochester, MN
- **Autoimmune Disorders of the Peripheral Nervous System**
Faculty
- **Autoimmune Encephalitis—The Cell Surface and Synaptic Antibodies**
Josep O. Dalmau, MD, PhD, Barcelona, Spain
- **Clinical Pearls**
Josep O. Dalmau, MD, PhD, Barcelona, Spain
Andrew McKeon, MD, Rochester, MN
Maarten J. Titulaer, MD, PhD, Rotterdam, Netherlands

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Saturday, April 16, 2016 3:30 p.m.–5:30 p.m.

C47 Neuroimaging for the General Neurologist: Spine and Peripheral Nerve II

Topic: General Neurology

Director: Joshua Klein, MD, PhD, Boston, MA

Program Description:

This program is designed to increase clinician comfort and competence in reviewing neuroimaging studies of the spine and peripheral nerves. The goal is to provide a practical and systematic approach that will allow for recognition of inflammatory, infectious, and neoplastic lesions.

This program complements C36: Neuroimaging for the General Neurologist: Spine and Peripheral Nerve I, but covers independent topics.

Upon Completion:

Participants should be able to systematically review images of the adult and pediatric spine and detect inflammatory, infectious, and neoplastic abnormalities.

Lecture/Faculty:

- ▶ **Imaging of Spinal Infections and Inflammation**
Shamik Bhattacharyya, MD, Boston, MA
- ▶ **Imaging of Spinal Tumors**
Jorg Dietrich, MD PhD, Boston, MA

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Saturday, April 16, 2016 3:30 p.m.–5:30 p.m.

C50 Autoimmune Neurology II

Topic: General Neurology

Director: Maarten J. Titulaer, MD, PhD, Rotterdam, Netherlands

Program Description:

Recent years have shown many discoveries of new antibodies. These new antibodies have broadened the horizon of these diseases, bordering with psychiatry, pediatrics, intensive care medicine, and (chronic) epilepsy. Many physicians struggle to keep up with all the new developments. Faculty will cover the newest developments, discuss caveats at diagnosis, test results, and treatment decisions. This course will be more advanced than the Autoimmune Neurology I course, and expects some basic knowledge of antibodies and the related syndromes. Overlap is minimized, and physicians are encouraged to complete both courses.

This program complements C39: Autoimmune Neurology I, but covers independent topics.

Upon Completion:

Participants should be able to identify the different disorders; adequately assess consultations at the psychiatry, pediatric neurology, and epilepsy wards; be able to avoid the pitfalls associated with antibody testing; and identify the appropriate tumors associated with the different syndromes.

Lecture/Faculty:

- ▶ **Neuropsychiatry and Encephalitis**
Josep O. Dalmau, MD, PhD, Barcelona, Spain
- ▶ **Clinical Pearls of Neuropsychiatry and Encephalitis**
Josep O. Dalmau, MD, PhD, Barcelona, Spain
- ▶ **Epilepsy and Encephalitis**
Maarten J. Titulaer, MD, PhD, Rotterdam, Netherlands
- ▶ **Clinical Pearls of Epilepsy and Encephalitis**
Maarten J. Titulaer, MD, PhD, Rotterdam, Netherlands

▶ Brainstem Encephalitis and Myelitis

Andrew McKeon, MD, Rochester, MN

▶ Clinical Pearls of Brainstem Encephalitis and Myelitis

Andrew McKeon, MD, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Saturday, April 16, 2016 6:30 p.m.–9:30 p.m.

C56 Test Your Knowledge: A Case-based Approach to Neuroimaging

Topic: General Neurology

Director: Joseph C. Masdeu, MD, PhD, FAAN, Houston, TX

Program Description:

Advances in neuroimaging have greatly impacted the practice of clinicians dealing with neurological disorders. Faculty will present common and more challenging neuroimaging cases, and facilitate discussion about the differential diagnosis of each case.

Upon Completion:

Participants should be able to describe an organized approach to reading neuroimaging studies, as well as helpful imaging clues to identify on imaging the diagnosis of common and unusual disorders.

Lecture/Faculty:

- ▶ **Neuroimaging Cases I**
Joseph C. Masdeu, MD, PhD, FAAN, Houston, TX
- ▶ **A Checklist for Neuroimaging**
James G. Smiriotopoulos, MD, Bethesda, MD
- ▶ **Neuroimaging Cases II**
Joshua Klein, MD, PhD, Boston, MA
- ▶ **Neuroimaging Cases III**
Joseph C. Masdeu, MD, PhD, FAAN, Houston, TX
- ▶ **Neuroimaging Cases IV**
James G. Smiriotopoulos, MD, Bethesda, MD

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Interactive, Audience Participation

CME Credits: 3.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

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Sunday, April 17, 2016

6:30 a.m.–8:30 a.m.

C62 Genetics in Neurology Overview

Topic: General Neurology

Director: Matthew Harms, MD, New York, NY

Program Description:

Recent technological advances in genetics have led to greatly accelerated gene discovery in neurologic disorders to improve diagnosis and provide new insights to disease mechanisms that we hope to lead to treatment. Faculty will provide updates regarding critical areas in neurogenetics, encompassing a broad spectrum of neurologic disorders that differ in their clinical manifestation, age of onset, neuroanatomical susceptibility, and genetic mechanism. Faculty will also cover important ethical and methodological issues concerning genetic testing for neurogenetic disorders, challenges in data interpretation, and translation of neurogenetics into clinical practice. Although many aspects of the course will be broadly applicable to neurogenetic diseases, each year will draw examples from a rotating set of specific diseases. The 2016 course will draw heavily from motor neuron diseases and dementias.

Upon Completion:

Participants should obtain a broad overview of neurogenetic advances, familiarity with available tools in diagnostics, current understanding of disease mechanisms underlying hereditary developmental and degenerative neurologic disorders, treatment strategies, and expert opinions on practical and still-evolving approaches to neurogenetic disorders.

Lecture/Faculty:

- ▶ Introduction to Advances in Neurogenetics
Matthew Harms, MD, New York, NY
- ▶ The Genetics of Motor Neuron Disease
Matthew Harms, MD, New York, NY
- ▶ The Genetic Basis of Dementing Disorders
Richard P. Mayeux, MD, MSc, FAAN, New York, NY

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Sunday, April 17, 2016

1:00 p.m.–3:00 p.m.

C72 Neurology Update I

Topic: General Neurology

Director: Joseph E. Safdieh, MD, FAAN, New York, NY

Program Description:

One of the primary goals of the AAN is to help its members stay up-to-date on the latest developments in the diagnosis and management

of neurologic disorders. This course will provide updates on Alzheimer's disease, neuro-oncology, and headache.

This program complements C86: Neurology Update II, C214: Neurology Update III, and C225: Neurology Update IV, but covers independent topics.

Upon Completion:

Participants should have knowledge of the most current recommendations for the diagnosis, management, and therapy of patients with the disorders discussed, and be able to put recent developments in context to provide optimal patient care.

Lecture/Faculty:

- ▶ Update in Alzheimer's Disease
Richard S. Isaacson, MD, BA, New York, NY
- ▶ Update in Neuro-oncology
Andrew B. Lassman, MD, New York, NY
- ▶ Update in Headache
Amaal J. Starling, MD, Phoenix, AZ

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Sunday, April 17, 2016

1:00 p.m.–3:00 p.m.

C79 Emergency Neurology Topics: Status Epilepticus and Pediatric Neurology Emergencies

Topics: Neuro Trauma, Critical Care, and Sports Neurology; Child Neurology and Developmental Neurology; General Neurology

Director: Laurie Gutmann, MD, FAAN, Iowa City, IA

See complete course description on page 87 »

Sunday, April 17, 2016

1:00 p.m.–3:00 p.m.

C81 Functional Neurologic Disorders I

Topic: General Neurology

Director: Janis Miyasaki, MD, FAAN, Edmonton, AB, Canada

Program Description:

Through an emphasis on case-based learning and interaction, this course will cover disclosing a diagnosis of functional neurologic disorder and language that can engage the patient and family in agreeing to a treatment plan; aspects of a novel program designed to work on motor programming; the approach to patients with previous diagnosis of multiple sclerosis who do not have laboratory evidence to support this diagnosis.

This program complements C94: Functional Neurologic Disorders II, but covers independent topics.

Upon Completion:

Participants should be able to collaborate with physiotherapy to better address symptoms of those with functional neurologic disorders, disclose a diagnosis of functional neurologic disorder, and disclose a patient does NOT have multiple sclerosis.

Lecture/Faculty:

- **Medically Unexplained Symptoms and Neurology**
Janis Miyasaki, MD, FAAN, Edmonton, AB, Canada
- **An Approach to Functional Neurologic Disorders**
Mark Edwards, MBBS, London, United Kingdom
- **Multiple Sclerosis and Functional Neurologic Disorder**
John O. Fleming, MD, Madison, WI

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Sunday, April 17, 2016 3:30 p.m.–5:30 p.m.

C86 Neurology Update II

Topic: General Neurology

Director: Joseph E. Safdieh, MD, FAAN, New York, NY

Program Description:

One of the primary goals of the AAN is to help its members stay up-to-date on the latest developments in the diagnosis and management of neurologic disorders. This course will provide updates on neuro-ophthalmology, myopathies, and neuro-critical care.

This program complements C72: Neurology Update I, C214: Neurology Update III, and C225: Neurology Update IV, but covers independent topics.

Upon Completion:

Participants should have knowledge of the most current recommendations for the diagnosis, management, and therapy of patients with the disorders discussed, and be able to put recent developments in context to provide optimal patient care.

Lecture/Faculty:

- **Update in Myopathies**
Andrew Mammen, MD, PhD, Baltimore, MD
- **Update in Neuro-Critical Care**
Matthew E. Fink, MD, FAAN, New York, NY
- **Update in Neuro-ophthalmology**
Marc Dinkin, MD, New York, NY

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Sunday, April 17, 2016 3:30 p.m.–5:30 p.m.

C92 Emergency Neurology Topics: Acute/Subacute Weakness and Subarachnoid Hemorrhage

Topics: Neuro Trauma, Critical Care, and Sports Neurology; General Neurology

Director: Laurie Gutmann, MD, FAAN, Iowa City, IA

See complete course description on page 87 »

Sunday, April 17, 2016 3:30 p.m.–5:30 p.m.

C94 Functional Neurologic Disorders II

Topic: General Neurology

Director: Janis Miyasaki, MD, FAAN, Edmonton, AB, Canada

Program Description:

This course will cover disclosing a diagnosis of functional neurologic disorder and language that can engage the patient and family in agreeing to a treatment plan. With an emphasis on case-based learning and interaction, faculty will cover aspects of a novel program designed to work on motor programming, as well as an approach to patients with a functional movement disorder and functional seizures.

This program complements C81: Functional Neurologic Disorders I, but covers independent topics.

Upon Completion:

Participants should be able to collaborate with physiotherapy to better address symptoms of those with functional neurologic disorders, disclose a diagnosis of functional neurologic disorder, and work with patients to discontinue antiepileptic medications.

Lecture/Faculty:

- **Introduction to Functional Neurologic Disorders**
Janis Miyasaki, MD, FAAN, Edmonton, AB, Canada
- **An Approach to Functional Movement Disorders**
Alberto J. Espay, MD, FAAN, Cincinnati, OH
- **An Approach to Functional Seizures**
Selim R. Benbadis, MD, Tampa, FL

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Monday, April 18, 2016

6:30 a.m.–8:30 a.m.

C96 Neurotoxicology

Topic: General Neurology

Director: Alan R. Berger, MD, Jacksonville, FL

Program Description:

Faculty will discuss the cardinal tenets of neurotoxic neuropathy, which could be used to identify whether a toxin is likely responsible for the patient's neuropathy. Select neurotoxins will be highlighted, illustrating the role of body burden or blood level testing, utility of electrodiagnostic testing, and what clues the history and physical exam could shed in detecting a toxic etiology. Illustrative case studies will be used to highlight the role of the cardinal tenets in identifying naturally occurring versus toxic peripheral neuropathies.

Upon Completion:

Participants should understand how to use the cardinal tenets of neurotoxic disease to help differentiate a potential toxic neuropathy from one naturally occurring; understand how pseudotoxic neuropathies can mimic true neurotoxic disease and how to differentiate between them; and understand the role and limitation of blood levels and body burden, how to best use the electrodiagnostic data, and how some select neurotoxins produce neuropathic disease.

Lecture/Faculty:

- **Identification of Cardinal Tenets of Toxic Peripheral Neuropathies**

Alan R. Berger, MD, Jacksonville, FL

- **Illustrative Toxic Neuropathies**

Michael T. Pulley, MD, PhD, Jacksonville, FL

Core Competency: Interpersonal and Communication Skills, Medical Knowledge, Patient Care

Teaching Style: Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Monday, April 18, 2016

1:00 p.m.–3:00 p.m.

C105 Therapy in Neurology I

Topic: General Neurology

Director: David W. Dodick, MD, Phoenix, AZ

Program Description:

Refinement in diagnostic criteria for demyelinating diseases and headache disorders and advancement in therapies have improved the ability of clinicians to accurately diagnose these disorders in clinical practice and provide evidence-based treatments that improve patient outcomes. Through comprehensive overviews, faculty will discuss the application of diagnostic criteria and individualized therapy.

This program complements C118: Therapy in Neurology II, C177: Therapy in Neurology III, and C190: Therapy in Neurology IV, but covers independent topics.

Upon Completion:

Participants should be able to distinguish demyelinating diseases from mimics, identify common primary headache disorders, and select appropriate treatments based on evidence and disease severity.

Lecture/Faculty:

- **Demyelinating Disease**

Dean M. Wingerchuk, MD, FAAN, Scottsdale, AZ

- **Headache**

David W. Dodick, MD, Phoenix, AZ

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Monday, April 18, 2016

3:30 p.m.–5:30 p.m.

C118 Therapy in Neurology II

Topic: General Neurology

Director: David W. Dodick, MD, Phoenix, AZ

Program Description:

There have been recent, rapid advances in medical and surgical options for patients with epilepsy and neurological emergencies. Faculty will facilitate a discussion of the evidence and experience-based implementation of current diagnostic modalities and best medical and surgical approaches to epilepsy and neurological emergencies.

This program complements C105: Therapy in Neurology I, C177: Therapy in Neurology III, and C190: Therapy in Neurology IV, but covers independent topics.

Upon Completion:

Participants should be able to discuss recent guidelines for the use of available medications for epilepsy and status epilepticus; describe the newly available treatment options for epilepsy and their patient-based implementation in clinical practice; discuss the indications for inpatient epilepsy monitoring, the diagnostic evaluation of patients with refractory epilepsy, and the medical and surgical approaches; describe the diagnostic evaluation of patients with a range of acute neurological emergencies; and discuss the treatment approach to patients with acute central and peripheral neurological emergencies.

Lecture/Faculty:

- **Epilepsy**

Katherine H. Noe, MD, PhD, Phoenix, AZ

- **Neurological Intensive Care**

Eelco F. M. Wijdicks, MD, FAAN, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Intensive Care Specialists, Internists

Tuesday, April 19, 2016

1:00 p.m.–3:00 p.m.

C141 *Continuum*® Test Your Knowledge: A Multiple-choice Question Review I (registration required)

Topic: General Neurology

Director: Aaron E. Miller, MD, FAAN, New York, NY

Program Description:

This course will use case-based, multiple-choice questions and brief didactic presentations to help neurologists stay current in clinical practice. Using the audience response system, faculty will engage participants in clinical problem solving and use multiple-choice questions from recent issues of *Continuum: Lifelong Learning in Neurology*® as a springboard for discussion of timely and important topics and developments in headache and epilepsy.

This course has been approved by the ABPN to provide 2.0 Self-assessment CME credits.

This program complements C155: Continuum® Test Your Knowledge: A Multiple-choice Question Review II, but covers independent topics.

Upon Completion:

Participants should be able to increase and refresh their knowledge of headache and epilepsy through presentation of common and not-so-common clinical problems, as well as learn to work through difficult clinical presentations both logically and successfully.

Lecture/Faculty:

- ▶ Headache
David W. Dodick, MD, Phoenix, AZ
- ▶ Epilepsy
Lara Jehi, MD, Cleveland, OH

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism

Teaching Style: Case Based, Interactive, Audience Participation

Self-assessment CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Tuesday, April 19, 2016

1:00 p.m.–3:00 p.m.

C142 Improving Accuracy of Dementia Diagnosis: Case Studies with Both Imaging and Neuropathology

Topics: Aging, Dementia, Cognitive, and Behavioral Neurology; General Neurology

Director: Edward Y. Zamrini, MD, Sun City, AZ

See complete course description on [page 35](#) »

Tuesday, April 19, 2016

1:00 p.m.–3:00 p.m.

C146 Neuroimaging for the General Neurologist: Brain I

Topic: General Neurology

Director: Laszlo Mechtler, MD, FAAN, Buffalo, NY

Program Description:

The practice of neurology is dependent upon the interpretation and clinical use of neuroimaging. Rapid progress in the field yields better techniques but also more complex decision making regarding the appropriate and cost effective use of imaging. Faculty will provide an update and overview on the role of neuroimaging in clinical neurology, offering an organized approach to the evaluation of neurologic disorders. Participants will be introduced to important MR sequences and how to use them in specific neurologic disorders. Foremost MRI scientists will present “Future Horizons in Neuroimaging: Here and Now,” and expert neuroimagers will present on imaging of headache, brain trauma, and in pregnancy. Faculty will use the audience response system to engage attendees in interesting imaging case study presentations, with a focus on epilepsy.

This program complements C161: Neuroimaging for the General Neurologist: Brain II, but covers independent topics.

Upon Completion:

Participants should be able to describe an organized approach to ordering and incorporating neuroimaging studies and sequences in the clinical practice of neurology; what neurologists need to know about MRI and its sequences, as well as the future horizons in neuroimaging; and the most frequent imaging patterns in patients with headaches, brain trauma, epilepsy, and in pregnancy.

Lecture/Faculty:

- ▶ What Neurologists Need to Know about MRI and Its Sequences
Michael Moseley, PhD, Stanford, CA
- ▶ Neuroimaging in Headache
Laszlo Mechtler, MD, FAAN, Buffalo, NY
- ▶ Neuroimaging in Pregnancy
Joshua Klein, MD, PhD, Boston, MA

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

New 2-Hour Education Course Format

Educational theory research suggests that learners pay attention and learn better in short amounts of time rather than in long sessions. That’s why we’ve re-tooled this year’s education program to offer most courses in 2-hour increments vs. the prior half-day and full-day course structure.

Course Descriptions

General Neurology

Tuesday, April 19, 2016

1:00 p.m.–3:00 p.m.

C148 Precision Neurology: The Promise and Perils of Whole Exome Sequencing for Neurological Disorders

Topic: General Neurology

Director: Amy R. Brooks-Kayal, MD, Aurora, CO

Program Description:

Addressing the rapidly developing area of Precision Medicine, this symposium discusses the potential power and pitfalls of next generation genetic testing for people with neurological disorders. The symposium will provide a scientific road map for clinicians and scientists from gene discovery through therapeutic impact. The symposium will address gene discovery (what is next gen sequencing (NGS), when to get it, and what to do with the information when you have it); provide updates on on-going multisite NGS initiatives in epilepsy and Alzheimers; discuss how to determine the functional impact of genetic changes and new gene editing approaches to correct genetic mutations; and finally will provide insight into the power of genetic information from a patient and family perspective.

This program complements C162: Precision Neurology: Precision Directed Genetic Therapeutics, but covers independent topics.

Upon Completion:

Upon completion, participants will appreciate the different types of next gen sequencing (NGS), when to get it, and what to do with the information when they have it; understand how the functional impact of genetic mutations can be assessed; be aware of ongoing multicenter NGS initiatives and novel therapeutic approaches for people with genetically based neurological disorders; and provide patients with current information and appropriate counseling regarding next generation genetic testing.

Lecture/Faculty:

- ▶ **Whole Exome/Genome Sequencing: What Is It? When To Get It? What To Do With the Information When You Have It?**
Faculty
- ▶ **Epi4K**
Faculty
- ▶ **Alzheimer's Disease Sequencing Project**
Richard P. Mayeux, MD, MSc, FAAN, New York, NY
- ▶ **Cells, Flies, Fish and Mice: How Do You Validate and Interrogate Potential Disease Causing Genes**
Faculty
- ▶ **Personalized Neurology from a Patient Perspective**
Faculty

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Tuesday, April 19, 2016

3:30 p.m.–5:30 p.m.

C155 *Continuum*® Test Your Knowledge: A Multiple-choice Question Review II (registration required)

Topic: General Neurology

Director: Aaron E. Miller, MD, FAAN, New York, NY

Program Description:

This course will cover neuro-oncology and critical care and is designed to help neurologists stay current in clinical practice using a case-based format, multiple-choice questions, and brief didactic presentations. With the aid of the Audience Response 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*®. Faculty will use the question-based format as a springboard for discussion of timely and important topics and developments, in neuro-oncology and critical care neurology and current literature searches.

This course has been approved by the ABPN to provide 2.0 Self-assessment CME credits.

This program complements C141: Continuum Test Your Knowledge: A Multiple-choice Question Review I, but covers independent topics.

Upon Completion:

Participants should be able to increase and refresh their knowledge of neuro-oncology and critical care neurology through presentation of common and not-so-common clinical problems, and learn to work through difficult clinical presentations both logically and successfully.

Lecture/Faculty:

- ▶ **Neuro-oncology**
Patrick Y. Wen, MD, FAAN, Boston, MA
- ▶ **Critical Care**
Sara E. Hocker, MD, Rochester, MN

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism

Teaching Style: Audience Participation, Didactic, Case Based, Interactive

Self-assessment CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Tuesday, April 19, 2016

3:30 p.m.–5:30 p.m.

C161 Neuroimaging for the General Neurologist: Brain II

Topic: General Neurology

Director: Laszlo Mechtler, MD, FAAN, Buffalo, NY

Program Description:

The practice of neurology is dependent upon the interpretation and clinical use of neuroimaging. Rapid progress in the field yields better

techniques but also more complex decision making regarding the appropriate and cost effective use of imaging. Faculty will provide an update and overview in the role of neuroimaging in clinical neurology and present an organized approach in the evaluation of neurological disorders. Attendees will be introduced to important MR sequences and how to use them in specific neurologic disorders. Expert neuroimagers will focus on imaging of headache, brain trauma, and in pregnancy, and discuss interesting imaging case study presentations on epilepsy.

This program complements C146: Neuroimaging for the General Neurologist: Brain I, but covers independent topics.

Upon Completion:

Participants should be able to describe an organized approach to ordering and incorporating neuroimaging studies and sequences in the clinical practice of neurology; understand what neurologists need to know about MRI and its sequences, as well as the future horizons in neuroimaging; and recognize the most frequent imaging patterns in patients with headaches, brain trauma, epilepsy, and in pregnancy.

Lecture/Faculty:

- ▶ **Neuroimaging in Mild Traumatic Brain Injury (mTBI)**
Laszlo Mechtler, MD, FAAN, Buffalo, NY
- ▶ **Future Horizons in Neuroimaging, Here and Now**
Michael Moseley, PhD, Stanford, CA
- ▶ **Interesting Imaging Cases**
Gregory D. Cascino, MD, FAAN, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Tuesday, April 19, 2016 3:30 p.m.–5:30 p.m.

C162 Precision Neurology: Precision Directed Genetic Therapeutics

Topic: General Neurology

Director: Peter K. Todd, MD, PhD, Ann Arbor, MI

Program Description:

Addressing the rapidly developing area of Precision Medicine, this two part symposium discusses the potential power and pitfalls of next generation genetic testing for people with neurological disorders. The symposium will provide a scientific road map for clinicians and scientists from gene discovery through therapeutic impact. The symposium will address gene discovery (what is next gen sequencing (NGS), when to get it, and what to do with the information when you have it); provide updates on on-going multisite NGS initiatives in epilepsy and Alzheimers; discuss how to determine the functional impact of genetic changes; evaluate the potential prognostic and therapeutic impacts of genetic diagnosis; discuss the application of novel therapeutics and new gene editing approaches to

correct or bypass specific genetic mutations; and finally will provide insight into the power and peril of genetic information from a patient and family perspective.

This program complements C148: Precision Neurology: The Promise and Perils of Whole Exome Sequencing for Neurological Disorders, but covers independent topics.

Upon Completion:

Upon completion, participants will appreciate the different types of next gen sequencing (NGS), when to get it, and what to do with the information when they have it; understand how the functional impact of genetic mutations can be assessed; be aware of ongoing multicenter NGS initiatives and novel therapeutic approaches for people with genetically based neurological disorders; and provide patients with current information and appropriate counseling regarding next generation genetic testing.

Lecture/Faculty:

- ▶ **Personalized Genomics in Neurology**
Jim Lupski, MD, PhD, Houston, TX
- ▶ **Personalized Medicine for Gliomas**
Faculty
- ▶ **Treating a Loss-of-Function Disorder:
Emerging Therapies for Friedreich Ataxia**
Massimo Pandolfo, MD, FAAN, Brussels, Belgium
- ▶ **Targeted Treatment of Genetic Neurological Disorders with
Antisense Technologies**
Charles A. Thornton, MD, FAAN, Rochester, NY
- ▶ **Prospects for Gene Editing and Gene Therapy in Neurology**
Faculty

Core Competency: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Wednesday, April 20, 2016 6:30 a.m.–8:30 a.m.

C168 Clinical E-Pearls

Topic: General Neurology

Director: Robert M. Pascuzzi, MD, FAAN, Indianapolis, IN

Program 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.

Upon Completion:

Participants should be able to enhance and enrich their ability to make effective and correct clinical diagnoses using bedside clinical observations and thus improving patient outcomes.

Course Descriptions

General Neurology

Lecture/Faculty:

- ▶ Pearls From the Inpatient Neurology Universe
S. Andrew Josephson, MD, San Francisco, CA
- ▶ Pearls in the Life of an MS Specialist
Jaison Grimes, MD, Indianapolis, IN
- ▶ Pearls From Neuromuscular Medicine
Robert M. Pascuzzi, MD, FAAN, Indianapolis, IN

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Professionalism

Teaching Style: Case Based, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Wednesday, April 20, 2016 6:30 a.m.–8:30 a.m.

C170 Principles of Genomic Medicine: Clinical Exome Sequencing in Neurologic Disease

Topic: General Neurology

Director: Brent L. Fogel, MD, PhD, Los Angeles, CA

Program Description:

Faculty will discuss the concept of genomic medicine and its use in clinical practice, as well as diagnostic testing designed to comprehensively assess the human genome for disease-causing mutations (i.e. clinical exome sequencing). Types of mutations identified will be described and presented in the context of their role in neurogenetic disease. The indications for the clinical use of this technology will be discussed for various common neurologic diseases (e.g., movement disorders, epilepsy, neurodevelopmental disorders, metabolic disease). Faculty will also cover ethical challenges including informed consent, appropriate genetic counseling, the reporting of incidental findings, and the detection of variants of unknown significance; resolution strategies; expected results from testing; and strategies for effective clinical interpretation.

Upon Completion:

Participants should be able to understand the principles of genomic medicine and the basics of common genomic diagnostic testing methodologies (e.g., clinical exome sequencing); effectively educate, counsel, and consent patients and their families regarding genomic diagnostic testing; understand, interpret, and communicate genomic diagnostic testing results to patients; and appreciate the ethical challenges inherent in genomic medicine and identify strategies to address them in clinical practice.

Lecture/Faculty:

- ▶ Clinical Exome Sequencing in the Diagnosis of Neurologic Disease
Brent L. Fogel, MD, PhD, Los Angeles, CA
- ▶ Medicolegal and Ethical Issues in Clinical Exome Sequencing
Wayne Grody, MD, PhD, Los Angeles, CA

- ▶ Case Presentations and Clinical Interpretation of Exome Sequencing Results

Brent L. Fogel, MD, PhD, Los Angeles, CA

Wayne Grody, MD, PhD, Los Angeles, CA

Hane Lee, PhD, Los Angeles, CA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Genetic Counselors

Wednesday, April 20, 2016 1:00 p.m.–3:00 p.m.

C177 Therapy in Neurology III

Topic: General Neurology

Director: Steven L. Lewis, MD, FAAN, Chicago, IL

Program Description:

Therapeutic options for neurologic diseases continue to expand. Faculty will discuss current treatment options and strategies for disorders commonly encountered in neurologic practice. Topics covered in this course will include the treatment of movement disorders and the treatment of cerebrovascular diseases.

This program complements C105: Therapy in Neurology I, C118: Therapy in Neurology II, and C190: Therapy in Neurology IV, but covers independent topics.

Upon Completion:

Participants should be able to apply current therapeutic options and strategies for their care of patients with movement disorders and their patients with cerebrovascular diseases.

Lecture/Faculty:

- ▶ Therapy of Movement Disorders
Stephen G. Reich, MD, FAAN, Baltimore, MD
- ▶ Therapy of Cerebrovascular Diseases
Seemant Chaturvedi, MD, FAAN, FAHA, Miami, FL

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

New Single-Rate Registration

You asked, and we listened: One low price helps us further our mission of promoting the highest quality patient-centered neurologic care by allowing you to sample a wider variety of programs, or participate in a track of courses geared toward your subspecialty.

Wednesday, April 20, 2016 1:00 p.m.–3:00 p.m.

C180 Genomic Neurology Workshop: Developing Practical Knowledge of Tools and Concepts Through Case Studies I (registration required)

Topic: General Neurology

Director: Jeffery M. Vance, MD, PhD, Miami, FL

Program Description:

Team-based learning (TBL) will allow participants to work together using online genomics tools to answer practical clinical questions in a case-based format. Participants will receive instructional materials prior to the workshop. This flipped-classroom model will allow more classroom time for performance-based, as opposed to purely knowledge-based, learning. A brief pre-lecture will ensure participants understand the important concepts to proceed to the TBL activity. Teams will answer case questions related to practical issues in ordering and interpreting genomic testing. Attendees should bring their laptops or tablets to enable hands-on experience using websites relevant to their practice. Attendees are strongly encouraged to attend both Part one and Part two of this course.

This program complements C193: Genomic Neurology Workshop: Developing Practical Knowledge of Tools and Concepts Through Case Studies II, but covers independent topics.

Upon Completion:

Participants should be able to list the factors that help determine which patients are appropriate candidates for neuro-genomic testing; determine, using online tools, the clinical significance of a genetic variants related to diagnosing and treating neurologic disease; describe key aspects of informed consent for genomic analyses; describe the process of next-generation sequencing data analysis; describe the benefits and limitations of integrative genomic analyses for patients with neurologic disease, including managing incidental findings.

Lecture/Faculty:

- ▶ **Pre-activity Lecture**
Richard Haspel, MD, PhD, Boston, MA
Jeffery M. Vance, MD, PhD, Miami, FL
- ▶ **Team-based Activity**
Richard Haspel, MD, PhD, Boston, MA
Jeffery M. Vance, MD, PhD, Miami, FL
- ▶ **Post-activity Lecture/Question Review**
Richard Haspel, MD, PhD, Boston, MA
Jeffery M. Vance, MD, PhD, Miami, FL

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Interactive, Audience Participation, Team Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Wednesday, April 20, 2016 1:00 p.m.–3:00 p.m.

C186 Neurologic Case Studies in Pregnancy I

Topic: General Neurology

Director: Mary A. O'Neal, MD, Boston, MA

Program Description:

This case-based course demonstrates how experts in the field approach stroke and general neurological problems in pregnancy. A case will be presented to one of the faculty members who will have the same information as the audience. The expert discussant will work through the case requesting imaging and necessary tests to decide on optimal management. The presenter will summarize the key points for the case, as well as the most recent information regarding the disorder.

This program complements C200: Neurologic Case Studies in Pregnancy II, but covers independent topics.

Upon Completion:

Participants should be able to understand the physiological changes in pregnancy which affect stroke; recommend safe options for imaging in pregnancy; understand the evaluation, management, and treatment of stroke; recommend safe options for treatment of headaches during pregnancy; and understand some of the common causes of postpartum neuropathy.

Lecture/Faculty:

- ▶ **Case 1: Stroke in Pregnancy**
Faculty
- ▶ **Case 2: Stroke in Pregnancy**
Louis R. Caplan, MD, FAAN, Boston, MA
- ▶ **Case 3: Headache in Pregnancy**
Janet F. Waters, MD, Pittsburgh, PA
- ▶ **Case 4: Postpartum Neuropathy**
Mary A. O'Neal, MD, Boston, MA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic, Interactive, Audience Participation, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Wednesday, April 20, 2016 3:30 p.m.–5:30 p.m.

C190 Therapy in Neurology IV

Topic: General Neurology

Director: Steven L. Lewis, MD, FAAN, Chicago, IL

Program Description:

Therapeutic options for neurologic diseases continue to expand. Faculty will discuss current treatment options and strategies for

Course Descriptions

General Neurology

disorders commonly encountered in neurologic practice. Topics covered in this course will include the treatment of neuroinfectious diseases and the treatment of neuromuscular diseases.

This program complements C105: Therapy in Neurology I, C118: Therapy in Neurology II, and C177: Therapy in Neurology III, but covers independent topics.

Upon Completion:

Participants should be able to apply current therapeutic options and strategies for their care of patients with neuroinfectious diseases and their patients with neuromuscular diseases.

Lecture/Faculty:

- **Therapy of Neuroinfectious Diseases**
Tracey Cho, MD, Boston, MA
- **Therapy of Neuromuscular Diseases**
Zachary N. London, MD, Ann Arbor, MI

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Wednesday, April 20, 2016 3:30 p.m.–5:30 p.m.

C193 Genomic Neurology Workshop: Developing Practical Knowledge of Tools and Concepts Through Case Studies II (registration required)

Topic: General Neurology

Director: Jeffery M. Vance, MD, PhD, Miami, FL

Program Description:

Team-based learning (TBL) will allow participants to work together using online genomics tools to answer practical clinical questions in a case-based format. Prior to the workshop, participants will receive instructional materials. This flipped-classroom model will allow more classroom time for performance-based, as opposed to purely knowledge-based, learning. A brief pre-lecture will ensure participants understand the important concepts to proceed to the TBL activity. Teams will answer case questions related to practical issues in ordering and interpreting genomic testing. Attendees should bring their laptops or tablets to enable hands-on experience in using websites relevant to their practice. Attendees are strongly encouraged to attend both Part one and Part two of this course.

This program complements C180: Genomic Neurology Workshop: Developing Practical Knowledge of Tools and Concepts Through Case Studies I, but covers independent topics.

Upon Completion:

Participants should be able to list the factors that help determine which patients are appropriate candidates for neuro-genomic testing; determine, using online tools, the clinical significance of a genetic variants related to diagnosing and treating neurological disease; describe key aspects of informed consent for genomic analyses;

describe the process of next-generation sequencing data analysis; and describe the benefits and limitations of integrative genomic analyses for patients with neurologic disease, including managing incidental findings.

Lecture/Faculty:

- **Genomic Neurology Workshop: Additional Cases**
Richard Haspel, MD, PhD, Boston, MA
Jeffery M. Vance, MD, PhD, Miami, FL

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Audience Participation, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Wednesday, April 20, 2016 3:30 p.m.–5:30 p.m.

C200 Neurologic Case Studies in Pregnancy II

Topic: General Neurology

Director: Mary A. O'Neal, MD, Boston, MA

Program Description:

This case-based course demonstrates how experts in the field approach epilepsy and multiple sclerosis in pregnancy. A case will be presented to one of the faculty members who will have the same information as the audience. The expert will work through the case requesting imaging and necessary tests to decide on optimal management. The presenter will summarize the key points for the case as well as the most recent information regarding the disorder.

This program complements C186: Neurologic Case Studies in Pregnancy I, but covers independent topics.

Upon Completion:

Participants should understand physiological changes in pregnancy that can affect the immune system and drug clearance; the risks of seizures and various antiepileptic drug regimens during pregnancy; be able to recommend safe options for the evaluation, management, and treatment of epilepsy; and recommend safe options for treatment of multiple sclerosis during pregnancy and the postpartum period.

Lecture/Faculty:

- **Case 1: Epilepsy and Pregnancy**
Cynthia L. Harden, MD, New York, NY
- **Case 2: Epilepsy and Pregnancy**
Kimford J. Meador, MD, FAAN, Stanford, CA
- **Case 3: Demyelinating Disease in Pregnancy**
Jacqueline A. Nicholas, MD, Columbus, OH
- **Case 4: Demyelinating Disease in Pregnancy**
Maria K. Houtchens, MD, Boston, MA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement



"The best thing about the Annual Meeting is how organized and punctual it is! I also enjoyed the basic courses in pharmacology and anatomy. The whole meeting has been a great experience!"

Alia Fallatah, Jeddah, Saudia Arabia

Registration fee required
AAN Leadership Development
I Talk session

Experiential Learning Area
Clinical Research track
Subspecialty in Focus track

Teaching Style: Interactive, Audience Participation, Didactic, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Thursday, April 21, 2016 6:30 a.m.–8:30 a.m.

C204 Important Drug Interactions for Neurologists and Psychiatrists

Topic: General Neurology

Director: Laurence J. Kinsella, MD, FAAN, St. Louis, MO

Program Description:

Drug interactions have had far-reaching consequences for residency training. Libby Zion, an 18-year-old New Yorker, died in 1984 of an interaction between meperidine and phenelzine as well as concurrent cocaine use. The Bell Commission, finding fault in resident overwork and fatigue, recommended limiting resident workloads to no more than 80 hours a week, which is now the law. But would today's well-rested resident or practicing neurologist have been able to save Libby Zion? Faculty will emphasize important drug interactions pertinent to neurologic practice and offer an algorithm for the prediction of relevant drug-drug interactions. Drug-diet interactions will also be discussed. A series of case studies will be provided to cement these concepts.

Upon Completion:

Participants should rediscover the P450 enzyme system as well as the genetic variations that affect drug metabolism; review a table of the important substrates, inhibitors, and inducers of P450 enzyme metabolism; and learn to predict drug-drug as well as drug-diet interactions before they occur.

Lecture/Faculty:

- ▶ Libby Zion's Lesson: Serotonin Syndrome and P450 Drug Interactions
Laurence J. Kinsella, MD, FAAN, St. Louis, MO
- ▶ Drug-diet Interactions
George Grossberg, MD, St. Louis, MO

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Thursday, April 21, 2016 6:30 a.m.–8:30 a.m.

C206 Neuro Flash: MRI and Multiple Sclerosis

Topics: MS and CNS Inflammatory Disease; General Neurology

Director: Robert T. Naismith, MD, St. Louis, MO

See complete course description on [page 85](#) »

Thursday, April 21, 2016 1:00 p.m.–3:00 p.m.

C214 Neurology Update III

Topic: General Neurology

Director: Barney J. Stern, MD, FAAN, Baltimore, MD

Program Description:

One of the primary goals of the AAN is to help its members stay up-to-date on the latest developments in the diagnosis and management of neurologic disorders. This course will provide updates on dizziness, epilepsy, and stroke.

This program complements C72: Neurology Update I, C286: Neurology Update II, and C225: Neurology Update IV, but covers independent topics.

Upon Completion:

Participants should be able to evaluate the dizzy patient in a logical manner, decide on a rational treatment strategy for seizure patients, appreciate recent developments in the care of stroke patients, and put recent developments in context to provide optimal patient care.

Lecture/Faculty:

- ▶ Epilepsy
Jennifer L. Hopp, MD, FAAN, Baltimore, MD
- ▶ Stroke
David L. Tirschwell, MD, FAAN, Seattle, WA
- ▶ Dizziness
Daniel R. Gold, DO, Baltimore, MD

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Thursday, April 21, 2016

1:00 p.m.–3:00 p.m.

C219 Neurologic Complications of Medical Disease: An Overview

Topic: General Neurology

Director: Sara E. Hocker, MD, Rochester, MN

Program Description:

The interface of neurology and medicine is vast and much of the overlap is uncommonly encountered by an individual physician who may encounter, for example, only a single case of Whipple's disease once in his/her career. Faculty will present an update of the interface of neurology and medicine in 75 minutes, followed by a 45-minute, case-based presentation of three common hospital consults in which the approach to diagnosis and management is highly variable.

This program complements C230: Neurologic Complications of Medical & Surgical Therapies, but covers independent topics.

Upon Completion:

Participants should be able to describe updates in the interface of neurology and medicine, use an organized approach to the diagnosis of movement disorders in the hospital, employ an evidence-based approach to prognostication after cardiac arrest, and describe an evidence-based approach to withholding or initiating anticoagulation after intracerebral hemorrhage or large ischemic stroke in the setting of valvular heart disease.

Lecture/Faculty:

- ▶ **The Interface of Neurology & Medicine: An Update**
Neeraj Kumar, MD, Rochester, MN
- ▶ **Three Common Hospital Consults**
Sara E. Hocker, MD, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Thursday, April 21, 2016

3:30 p.m.–5:30 p.m.

C225 Neurology Update IV

Topic: General Neurology

Director: Barney J. Stern, MD, FAAN, Baltimore, MD

Program Description:

One of the primary goals of the AAN is to help its members stay up-to-date on the latest developments in the diagnosis and management of neurologic disorders. This course will provide updates on multiple sclerosis, movement disorders (especially Parkinson's disease), and peripheral neuropathies.

This program complements C72: Neurology Update I, C286: Neurology Update II, and C214: Neurology Update III, but covers independent topics.

Upon Completion:

Participants should become familiar with the most current recommendations for the diagnosis, management, and therapy of patients with the disorders discussed, and be able to put recent developments in context to provide optimal patient care.

Lecture/Faculty:

- ▶ **Multiple Sclerosis**
Daniel Harrison, MD, Baltimore, MD
- ▶ **Movement Disorders**
Melissa Armstrong, MD, MSc, Gainesville, FL
- ▶ **Peripheral Neuropathies**
Vera Bril, MD, Toronto, ON, Canada

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Thursday, April 21, 2016

3:30 p.m.–5:30 p.m.

C230 Neurologic Complications of Medical and Surgical Therapies

Topic: General Neurology

Director: Sara E. Hocker, MD, Rochester, MN

Program Description:

Neurologic complications of medical and surgical therapies frequently are major sources of morbidity for patients admitted to the hospital. Drug therapies, critical care, and cardiac surgeries and procedures in particular are major sources of neurologic complications. Faculty will review specific neurologic complications of drug therapies, intensive care, and cardiac surgeries and procedures.

This program complements C219: Neurologic Complications of Medical Disease: An Overview, but covers independent topics.

Upon Completion:

Participants should be able to identify neurologic syndromes resulting from commonly used drugs; recognize neurologic syndromes commonly associated with intensive care; and have an approach to the evaluation of altered mental status, abnormal movements, or focal deficits following cardiac surgeries or procedures

Lecture/Faculty:

- ▶ **Neurologic Complications of Drug Therapies**
Sara E. Hocker, MD, Rochester, MN
- ▶ **Neurologic Complications of Critical Care**
Christopher L. Kramer, MD, Chicago, IL
- ▶ **Neurologic Complications of Cardiac Surgeries and Procedures**
Sarkis Morales-Vidal, MD, Tampa, FL

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Global Health

Wednesday, April 20, 2016 3:30 p.m.–5:30 p.m.

C201 Neurocysticercosis and Globalization

Topic: Global Health

Director: Jorge G. Burneo, MD, MSPH, FAAN, London, ON, Canada

Program Description:

NCC is the most common helminthic infection of the nervous system and a major cause of acquired epilepsy worldwide. NCC is endemic in most of the developing world, and it was rare in developed countries up to the past few decades. Due to the growing number of immigrants, as well as an increase in tourism and international business affairs, people from nonendemic areas has become more susceptible to acquire this parasitic disease. Faculty will provide an update on the current epidemiology and situation of NCC in this era of globalization, and discuss NCC-related epilepsy and management.

Upon Completion:

Participants should have a better understanding of NCC and its impact in the current state of globalization.

Lecture/Faculty:

- ▶ **Neurocysticercosis in Non-endemic Areas and in the Traveler**
Oscar H. Del Brutto, MD, FAAN, Guayaquil, Ecuador, FL
- ▶ **Treating Neurocysticercosis: Consensus and Controversies**
Gustavo C. Roman, MD, FAAN, Houston, TX
- ▶ **Neurocysticercosis and Epilepsy**
Jorge G. Burneo, MD, MSPH, FAAN, London, ON, Canada

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Non-Neurologist

New Dates: Friday through Thursday

While previous Annual Meetings have traditionally run Saturday through Saturday, the 2016 meeting will begin on a Friday and end on a Thursday. This new, condensed timeframe creates opportunities for some exciting changes while still allowing you to completely customize your schedule to your interests and needs.

Headache

Saturday, April 16, 2016

1:00 p.m.–3:00 p.m.

C30 Chronic Migraine Education Program I

Topic: Headache

Director: Richard B. Lipton, MD, FAAN, Bronx, NY

Program Description:

The Chronic Migraine Education Program (CMEP) was developed by the American Headache Society®. The CMEP highlights epidemiologic data on the scope and distribution of migraine with an emphasis on chronic migraine, practical methods for diagnosing chronic migraine, and recent insights into the mechanisms of the disorder, setting the stage for improving treatment outcomes for this most disabling of headache disorders. The CMEP is designed to provide a comprehensive understanding of migraine with an emphasis on chronic migraine, as well as to better diagnose and treat these serious problems.

This program complements C43: Chronic Migraine Education Program II, but covers independent topics.

Upon Completion:

Participants should be able to apply criteria for the clinical diagnosis and differential diagnosis of chronic migraine and episodic migraine using diagnostic algorithms; recognize the scope, burden, and distribution of chronic migraine in the population as well as the risk factors that predispose to it; and describe emerging insights into the pathophysiology of chronic migraine.

Lecture/Faculty:

- ▶ **Chronic Migraine Education Program I**
Peter Goadsby, MD, PhD, San Francisco, CA
Richard B. Lipton, MD, FAAN, Bronx, NY

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Audience Participation, Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Saturday, April 16, 2016

3:30 p.m.–5:30 p.m.

C43 Chronic Migraine Education Program II

Topic: Headache

Director: Richard B. Lipton, MD, FAAN, Bronx, NY

Program Description:

The Chronic Migraine Education Program (CMEP) was developed by the American Headache Society®. The CMEP highlights epidemiologic data on the scope and distribution of migraine with an emphasis on chronic migraine, practical methods for diagnosing chronic migraine, and recent insights into the mechanisms of the

Course Descriptions

Headache

disorder setting the stage for improving treatment outcomes for this most disabling of headache disorders. The CMEP is designed to provide a comprehensive understanding of migraine with an emphasis on chronic migraine, as well as to better diagnose and treat these serious problems.

This program complements C30: Chronic Migraine Education Program I, but covers independent topics.

Upon Completion:

Participants should be able to apply criteria for the clinical diagnosis and differential diagnosis of chronic migraine and episodic migraine using diagnostic algorithms; recognize the scope, burden, and distribution of chronic migraine in the population, as well as the risk factors that predispose to it; and describe emerging insights into the pathophysiology of chronic migraine.

Lecture/Faculty:

- ▶ **Chronic Migraine Education Program II**
Sheena K. Aurora, MD, Stanford, CA
Lawrence C. Newman, MD, FAAN, New York, NY

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Saturday, April 16, 2016 6:30 p.m.–9:30 p.m.

C52 Case Studies: Challenging Headache Cases

Topic: Headache

Director: Kathleen B. Digre, MD, FAAN, Salt Lake City, UT

Program Description:

We learn the basics and guidelines on many headache diagnoses and treatments, but how do we apply this knowledge to real-life cases that we are challenged by in every day practice where the basics are not enough and even guidelines do not help us? This course is designed to challenge the attendee and the presenters as we work through complex headache cases—highlighting challenges to diagnosis, evaluation, interpretation, and treatment of complex cases. Faculty will highlight guidelines and best practice, with the assumption that attendees have had some basic headache background and are willing to grapple with complex issues in headache through discussion, sharing, and even debate. Cases will be posted ahead of time, with references and key points about the cases posted upon completion of the session.

Upon Completion:

Participants should be able to diagnose a variety of headache disorders, often with confusing presentations; formulate treatment plans that can incorporate multi-disciplinary regimens; analyze drug treatment side effects as well as interactions in therapeutic options; recognize the importance of co-morbidities that contribute to complexity in headache diagnosis and treatment; and integrate these factors into a therapeutic plan.

Lecture/Faculty:

- ▶ **Discussion of Cases**
Kathleen B. Digre, MD, FAAN, Salt Lake City, UT
Deborah I. Friedman, MD, FAAN, Dallas, TX
Stephanie J. Nahas, MD, FAAN, Philadelphia, PA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Interactive, Audience Participation

CME Credits: 3.0

Recommended Audience: Trainee, General Neurologist, Advanced Practice Providers

Sunday, April 17, 2016 6:30 a.m.–8:30 a.m.

C59 Interventional Treatment of Migraine and Other Headache Disorders

Topics: Headache;
Subspecialty in Focus

Director: Morris Levin, MD, FAAN, San Francisco, CA



Program Description:

Knowledge of the scientific basis and techniques for nerve blockade, neurostimulation, and inpatient treatment of migraine and other primary headaches is important in making treatment decisions in refractory cases. Faculty will use a case-based approach emphasizing audience participation to review techniques of peripheral nerve blocks used for headache disorders, the scientific basis for their use, neurostimulation techniques in primary headaches with a focus on evidence for their efficacy, and inpatient approaches to the treatment of refractory primary headaches.

This program is offered in partnership with the American Headache Society and the Headache and Facial Pain Section.

Upon Completion:

Participants should be able to describe the practice of nerve blocks used in primary headache disorders, list and discuss the neurostimulation techniques proposed for primary headache disorders, and explain several options for inpatient treatment of refractory primary headaches.

Lecture/Faculty:

- ▶ **Nerve Blocks and Trigger Point Injections: Pharmacology and Technique**
Morris Levin, MD, FAAN, San Francisco, CA
- ▶ **Evidence for Nerve Blocks and Trigger Point Injections in Headache**
Thomas N. Ward, MD, FAAN, Lebanon, NH
- ▶ **Neurostimulation in Primary Headache Disorders—Options and Evidence**
Morris Levin, MD, FAAN, San Francisco, CA
- ▶ **Inpatient Treatment of Headache—Options and Outcomes**
Thomas N. Ward, MD, FAAN, Lebanon, NH

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic, Audience Participation, Case Based, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Tuesday, April 19, 2016 6:30 a.m.–8:30 a.m.

C128 Management of Migraine and Psychiatric Comorbidities

Topic: Headache

Director: Mia T. Minen, MD, New York, NY

Program Description:

Migraine is one of the most common reasons for neurology referral. This diagnosis is frequently associated with psychiatric disorders, particularly depression and anxiety. Limited access to mental health services and patient reluctance to seek psychiatric care are among the barriers providers face. Neurologists' recognition, diagnosis, and treatment of psychiatric conditions comorbid with migraine provides tremendous benefit to our patients and to our healthcare system. Faculty will provide an update on the various types of psychiatric conditions seen with migraine and provide tools for efficient in-office screening, and discuss treatment strategies, from the nuts and bolts of medication therapy to incorporating a non-pharmacologic approach. The program will conclude with case presentations led by headache specialists with expertise in behavioral health issues.

Upon Completion:

Participants will be familiar with the common psychiatric comorbidities related to migraine, such as anxiety, depression, bipolar disorder, PTSD, and sleep disorders; be able to discuss the various tools available to screen for these disorders during the course of the neurological evaluation; and be able to devise treatment regimens for psychiatric conditions, as well as understand the principles and benefit of non-pharmacologic therapeutic options.

Lecture/Faculty:

- ▶ **Introduction to the Field of Neuropsychiatry**
Mia T. Minen, MD, New York, NY
- ▶ **Migraine and Psychiatric Comorbidities: The Epidemiology**
Mia T. Minen, MD, New York, NY
- ▶ **Migraine and Psychiatric Comorbidities: Potential Mechanisms and Treatment Implications**
Gretchen E. Tietjen, MD, Toledo, OH
- ▶ **Screening Tools**
Faculty
- ▶ **Non-pharmacologic Migraine Treatment Options**
Faculty
- ▶ **Pharmacologic Considerations**
Mia T. Minen, MD, New York, NY
- ▶ **Interactive Cases**
Gretchen E. Tietjen, MD, Toledo, OH
- ▶ **Question and Answer**
Mia T. Minen, MD, New York, NY
Gretchen E. Tietjen, MD, Toledo, OH

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Tuesday, April 19, 2016 1:00 p.m.–3:00 p.m.

C137 Introduction to Primary Headache Disorders I

Topic: Headache

Director: Todd D. Rozen, MD, FAAN, Jacksonville, FL

Program Description:

Primary headache disorders are those that are not attributable to another underlying secondary condition like a vascular malformation or brain neoplasm. The most well recognized primary headache subtypes are migraine, cluster, and tension-type headache, but there are many more primary headache disorders listed in the International Headache Classification that neurologists should be aware of as they may encounter them in their clinical practice. This introductory course will focus on the primary headache syndromes and will delve into their epidemiology, clinical presentation, and treatment utilizing case-based scenarios. The lectures in the present course will focus on migraine and tension-type headache as well as lesser known primary headache conditions including hypnic headache, primary stabbing headache, and nummular headache.

This program complements C152: Introduction to Primary Headache Disorders II, but covers independent topics.

Upon Completion:

Participants should be familiar with how to diagnose and treat various primary headache disorders; and become familiar with the International Classification of Headache Disorders, 3rd edition (beta version), as well as updated evidence-based treatment guidelines for migraine and other primary headache disorders.

Lecture/Faculty:

- ▶ **Overview of Migraine**
Lawrence C. Newman, MD, FAAN, New York, NY
- ▶ **Other Primary Headaches: Tension Type Headache, Stabbing Headache, Hypnic Headache, and Nummular Headache**
Deborah I. Friedman, MD, FAAN, Dallas, TX

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Non-Neurologist, Advanced Practice Providers

Visit the Exhibit Hall

Don't forget to stop by the Exhibit Hall to network and preview the latest products and services available in the neurologic industry.

Tuesday, April 19, 2016

3:30 p.m.–5:30 p.m.

C152 Introduction to Primary Headache Disorders II

Topic: Headache

Director: Todd D. Rozen, MD, FAAN, Jacksonville, FL

Program Description:

Primary headache disorders are those that are not attributable to another underlying secondary condition, like a vascular malformation or brain neoplasm. The most well recognized primary headache subtypes are migraine, cluster, and tension-type headache, but there are many more primary headache disorders listed in the International Headache Classification that neurologists should be aware of as they may encounter them in their clinical practice. This introductory course will focus on the primary headache syndromes and will delve into their epidemiology, clinical presentation, and treatment using case-based scenarios. Faculty will focus on the trigeminal autonomic cephalalgias and lesser known headache conditions, including new daily persistent headache, cough headache, exercise headache, headache associated with sexual activity, and primary thunderclap headache.

This program complements C137: Introduction to Primary Headache Disorders I, but covers independent topics.

Upon Completion:

Participants should be familiar with how to diagnose and treat various primary headache disorders; become familiar with the International Classification of Headache Disorders, 3rd edition (beta version); be able to define various subtypes of trigeminal autonomic cephalalgias; and identify specific treatment for these subtypes.

Lecture/Faculty:

- **Overview of Trigeminal Autonomic Cephalalgias**
Christopher J. Boes, MD, FAAN, Rochester, MN
- **Other Primary Headaches: Exercise, Cough, Headache with Sexual Activity, Primary Thunderclap Headache, and New Daily Persistent Headache**
Todd D. Rozen, MD, FAAN, Jacksonville, FL

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Wednesday, April 20, 2016

6:30 a.m.–8:30 a.m.

C176 Therapy of Headache

Topic: Headache

Director: Stephanie J. Nahas, MD, FAAN, Philadelphia, PA

Program Description:

Utilizing a “clinical pearls,” case-based, and interactive panel Q & A format, faculty will cover practical strategies for the acute and

prophylactic management of migraine and other common (and less common) primary and secondary headache disorders. Faculty will examine important and therapeutically challenging headache medicine scenarios.

Upon Completion:

Participants should be familiar with basic and advanced strategies for the acute and preventive treatments of migraine, cluster headache, and other primary headache disorders. Participants should increase their comfort level with the management strategies for common but challenging headache management clinical scenarios.

Lecture/Faculty:

- **Therapeutic Options in Headache: Case Illustrations**
Stephanie J. Nahas, MD, FAAN, Philadelphia, PA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Thursday, April 21, 2016

1:00 p.m.–3:00 p.m.

C221 Hot Topics in Headaches and Related Disorders I

Topic: Headache

Director: Peter Goadsby, MD, PhD, San Francisco, CA

Program Description:

Faculty will address a range of issues relevant to clinical practice that are developing or emerged in recent years. Topics will include important changes in the understanding of migraine pathophysiology; new therapeutics and delivery systems as they apply to clinical practice; childhood headache in the context of misdiagnosis and evolution of thinking in these disorders; the trigeminal autonomic cephalalgias, particularly cluster headache, in terms of pathophysiology and new treatments; and more unusual headache disorders.

This program complements C232: Hot Topics in Headaches and Related Disorders II, but covers independent topics.

Upon Completion:

Participants should be able to discuss with their patients the evolution in the range of aspects of headache care.

Lecture/Faculty:

- **Migraine: Our Evolving Understanding of its Pathophysiology**
Andrew Charles, MD, Los Angeles, CA
- **New and Promising Therapy in Migraine**
Ana Recober-Montilla, MD, Philadelphia, PA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Child Neurologist

Thursday, April 21, 2016 3:30 p.m.–5:30 p.m.

C232 Hot Topics in Headaches and Related Disorders II

Topic: Headache

Director: Peter Goadsby, MD, PhD, San Francisco, CA

Program Description:

Faculty will address a range of issues relevant to clinical practice that are developing or emerged in recent years, including misdiagnosis and evolution of thinking about childhood headache disorders. Trigeminal autonomic cephalalgias, particularly cluster headache, will be covered in terms of pathophysiology and new treatments, as will some more unusual headache disorders.

This program complements C221: Hot Topics in Headaches and Related Disorders I, but covers independent topics.

Upon Completion:

Participants should be able to discuss and better manage pediatric headache and trigeminal autonomic cephalalgias.

Lecture/Faculty:

- ▶ **Childhood Headache: A Growing Problem**
Amy Gelfand, MD, San Francisco, CA
- ▶ **Trigeminal Autonomic Cephalalgias and Other Unusual Headaches**
Peter Goadsby, MD, PhD, San Francisco, CA

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Infectious Disease

Saturday, April 16, 2016 6:30 a.m.–8:30 a.m.

C21 Neuro Flash: Approach to Acute CNS Infections

Topic: Infectious Disease

Director: Christina Marra, MD, FAAN, Seattle, WA

Program Description:

Central nervous system (CNS) infections are often neurologic emergencies in which prompt diagnosis and treatment may mean the difference between good recovery and death or significant disability. Neurologists are often asked to make decisions about diagnosis and management of CNS infections. This course will begin with a systematic approach to diagnosis of acute CNS infections, followed

by case-based, interactive discussions of individual infections. Each case will be followed by an overview and update on the topic, including differential diagnosis, diagnostic studies, and antimicrobial therapy.

Upon Completion:

Participants will gain skills in applying a systematic approach to diagnosis and management of acute CNS infections, as well as increase their knowledge about specific infections and their treatment.

Lecture/Faculty:

- ▶ **Introduction and Approach to Diagnosis of Acute CNS Infections**
Christina Marra, MD, FAAN, Seattle, WA
- ▶ **Case Presentations and Discussion**
Christina Marra, MD, FAAN, Seattle, WA
Ana-Claire L. Meyer, MD, New Haven, CT

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Saturday, April 16, 2016 1:00 p.m.–3:00 p.m.

C35 Differential Diagnosis of Neurologic Infections

Topics: Infectious Disease

Director: Allen J. Aksamit, Jr., MD, FAAN, Rochester, MN

Program Description:

Differential diagnosis of patients with possible neurologic infections will be presented to discuss the differential diagnosis, imaging, spinal fluid interpretation, PCR testing, mimicking disorders, and need for brain biopsy. Specific topics will include coverage of encephalitis, meningitis, and focal cerebral infection.

Upon Completion:

Participants after attending this course should have a better ability to give a more precise differential diagnosis of neurologic infection possibilities, recognize specific imaging clues identifying specific diagnosis, and interpret and understand the limitations of PCR and other microbiologic tests.

Lecture/Faculty:

- ▶ **Case 1 Ataxia in HIV**
Faculty
- ▶ **Case 2 Atypical Encephalitis**
Israel Steiner, MD, Petah Tiqva, Israel
- ▶ **Case 3 Chronic Meningitis**
Allen J. Aksamit, Jr., MD, FAAN, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Audience Participation, Case Based, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Sunday, April 17, 2016

6:30 a.m.–8:30 a.m.

C65 Infections of the Nervous System I

Topics: Infectious Disease

Director: Tracey Cho, MD, Boston, MA

Program Description:

Infections of the nervous system can present acutely and cause permanent neurological disability or death. Prompt diagnosis and appropriate treatment can mitigate the morbidity and mortality of acute CNS infections. Faculty will focus on acute meningitis and encephalitis, with an emphasis on diagnosis and management of these relatively common infectious syndromes. Syndromic approach to diagnosis and case discussions with audience questions will be encouraged.

This program complements C76: Infections of the Nervous System II and C89: Infections of the Nervous System III, but covers independent topics.

Upon Completion:

Participants should improve their competence in the recognition, differentiation, and management of common acute infections of the nervous system.

Lecture/Faculty:

- ▶ **Acute Meningitis**
Russell E. Bartt, MD, FAAN, Denver, CO
- ▶ **Encephalitis**
Arun Venkatesan, MD, PhD, Baltimore, MD

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Interactive, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Sunday, April 17, 2016

1:00 p.m.–3:00 p.m.

C76 Infections of the Nervous System II

Topics: Infectious Disease

Director: Tracey Cho, MD, Boston, MA

Program Description:

This program will provide an overview of advanced topics in infections of the central nervous system. Faculty will provide updates on the appropriate approach to diagnosis and management of a variety of CNS infections with a focus on recurrent and chronic meningitis, as well as pachymeningitis. Syndromic approach to diagnosis and case discussions with audience questions will be encouraged.

This program complements C65: Infections of the Nervous System I and C89: Infections of the Nervous System III, but covers independent topics.

Upon Completion:

Participants should become familiar with current diagnostic algorithms and treatment recommendations for a variety of advanced infections affecting the central nervous system.

Lecture/Faculty:

- ▶ **Chronic Meningitis: Simplifying a Diagnostic Challenge**
Kelly Baldwin, MD, Danville, PA
- ▶ **Pachymeningitis**
Tracey Cho, MD, Boston, MA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic, Case Based, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Sunday, April 17, 2016

3:30 p.m.–5:30 p.m.

C89 Infections of the Nervous System III

Topics: Infectious Disease

Director: Tracey Cho, MD, Boston, MA

Program Description:

This program will provide an overview of neurological infections affecting immunocompromised hosts. Faculty will provide updates on the appropriate approach to diagnosis and management of a variety of CNS infections with a focus on patients with HIV and other causes of immunocompromise. Syndromic approach to diagnosis and case discussions with audience questions will be encouraged.

This program complements C65: Infections of the Nervous System I and C76: Infections of the Nervous System II, but covers independent topics.

Upon Completion:

Participants should become familiar with current diagnostic algorithms and treatment recommendations for a variety of neurological infections affecting the immunocompromised host.

Lecture/Faculty:

- ▶ **Neurological Complications of HIV**
Felicia Chow, MD, San Francisco, CA
- ▶ **CNS Infections in Patients Immunocompromised by Cancer, Transplantation, and Other Non-HIV Conditions**
Amy A. Pruitt, MD, Philadelphia, PA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Interactive, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Wednesday, April 20, 2016 6:30 a.m.–8:30 a.m.

C175 The Interface Between Infection and Cerebrovascular Disease

Topics: Cerebrovascular Disease and Interventional Neurology; Infectious Disease

Director: Reza Behrouz, DO, San Antonio, TX

See complete course description on [page 43](#) »

Movement Disorders

Saturday, April 16, 2016 6:30 a.m.–8:30 a.m.

C15 Redefining Parkinson's Disease: Challenging the Past and Preparing for the Future

Topics: Movement Disorders; Subspecialty in Focus

Director: Jennifer G. Goldman, MD, MS, FAAN, Chicago, IL



Program Description:

In recent years, new clinical and basic science research findings have challenged many traditional concepts about Parkinson's disease (PD). In particular, PD is now recognized as more than a motor disorder, more than a dopamine disorder, and more than a central nervous system disorder. These findings have led us to question when exactly does PD start, where and why does it begin, how does PD evolve clinically and pathologically, and what are the best treatments across all stages and symptoms of PD? Our current definitions of PD, however, are inadequate to capture this complex, multi-system, and multi-faceted disorder. Indeed, at present, a Movement Disorder Society Task Force has proposed redefinitions. This session will highlight the complexities of PD, challenges regarding its current definition, and future directions.

This program is offered in partnership with the International Parkinson Disease and Movement Disorder Society and the Movement Disorders Section.

Upon Completion:

Participants should be able to recognize the broad range of motor and nonmotor symptoms in PD, as well as premotor phases of PD; describe theories regarding multiple etiologies of PD symptoms, progression, and pathology; discuss multiple therapeutic approaches for comprehensively treating PD-related symptoms across all stages of disease; and discuss the challenges and controversies associated with current definitions of PD and future directions.

Lecture/Faculty:

- ▶ **PD: A Disorder of Multiple Systems?**
Jennifer G. Goldman, MD, MS, FAAN, Chicago, IL
- ▶ **PD: A Disorder with Multiple Etiologies?**
Ronald Postuma, MD, Montreal, QC, Canada

- ▶ **PD: A Disorder that Requires Multiple Therapeutic Approaches...**
Jennifer G. Goldman, MD, MS, FAAN, Chicago, IL
- ▶ **PD: A Disorder in Need of Redefinition!**
Ronald Postuma, MD, Montreal, QC, Canada

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Interactive, Audience Participation, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Saturday, April 16, 2016 6:30 a.m.–8:30 a.m.

C17 Paroxysmal Movement Disorders

Topic: Movement Disorders

Director: Kailash P. Bhatia, MD, FAAN, London, United Kingdom

Program Description:

Advances in identification of different forms of paroxysmal movement disorders and also molecular genetics have greatly impacted the practice of clinicians dealing with these conditions. Through presentations of video cases of common and rarer forms of acquired and genetic paroxysmal movement disorders the faculty will facilitate a discussion about differential diagnosis and laboratory evaluation. Each case will be followed by an overview and update on the topic.

Upon Completion:

Participants should be able to identify the different forms of paroxysmal movement disorders and be able to order appropriate investigations, whether they be imaging, biochemical, CSF examination, or genetics to arrive at the right diagnosis; and consider the appropriate drug or other management for each form of paroxysmal movement disorder.

Lecture/Faculty:

- ▶ **Paroxysmal Movement Disorders**
Kailash P. Bhatia, MD, FAAN, London, United Kingdom
- ▶ **Paroxysmal Movement Disorders**
Kapil D. Sethi, MD, FRCP (UK), FAAN, Augusta, GA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

New Experiential Learning

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Saturday, April 16, 2016

1:00 p.m.–3:00 p.m.

C31 Hyperkinetic Movement Disorders: Videodiagnosis and Treatment

Topic: Movement Disorders

Director: Oksana Suchowersky, MD, FAAN, Edmonton, AB, Canada

Program Description:

Hyperkinetic movement disorders can have many etiologies, including structural, metabolic, and genetic. Recognition of phenomenology is key to making the diagnosis. Recent advances in genetic testing for some of these disorders has facilitated diagnosis, which has important implications for management and genetic counseling. In this video-rich program, faculty will discuss the differential diagnosis and evaluation of tics, dystonia, chorea, and tremor syndromes. Special attention will be paid to pediatric movement disorders this year. The latest advances in therapy of hyperkinetic movement disorders will be reviewed based on current practice and evidence-based guidelines.

Upon Completion:

Participants should be able to recognize the various types of hyperkinetic movement disorders; discuss the differential diagnosis of patients with hyperkinetic movement disorders; and understand the approaches to management of patients with these disorders.

Lecture/Faculty:

- ▶ **Chorea**
Oksana Suchowersky, MD, FAAN, Edmonton, AB, Canada
- ▶ **Tremors**
Sylvain Chouinard, MD, Montreal, QC, Canada
- ▶ **Dystonia**
Oksana Suchowersky, MD, FAAN, Edmonton, AB, Canada
- ▶ **Pediatric Movement Disorders**
Sylvain Chouinard, MD, Montreal, QC, Canada

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Saturday, April 16, 2016

6:30 p.m.–9:30 p.m.

C53 Case Studies: Unusual Movement Disorders

Topic: Movement Disorders

Director: Anthony E. Lang, MD, FAAN, Toronto, ON, Canada

Program Description:

This course has a long tradition of case presentations by both the faculty and members of the audience, highlighting diagnostic

challenges. Participants are invited to bring interesting cases for presentation. These cases will be intermixed with cases from the faculty. Known diagnoses will be prioritized. The faculty will first emphasize an interactive discussion regarding visual recognition of the clinical phenomenology followed by a discussion of differential diagnoses, investigations, and management. Attendees hoping to present cases should contact the director, Anthony Lang, MD, FAAN, by email lang@uhnres.utoronto.ca to discuss the potential case presentation.

Upon Completion:

Participants should become familiar with unusual movement disorders and be able to formulate better differential diagnoses for them. Where relevant, participants should also be able to initiate appropriate diagnostic investigation and management of these disorders.

Lecture/Faculty:

- ▶ **Unusual Movement Disorders Case Presentations**
Kailash P. Bhatia, MD, FAAN, London, United Kingdom
Alberto J. Espay, MD, FAAN, Cincinnati, OH
Anthony E. Lang, MD, FAAN, Toronto, ON, Canada

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Audience Participation

CME Credits: 3.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Sunday, April 17, 2016

6:30 a.m.–8:30 a.m.

C66 Movement Disorders for the General Neurologist I

Topic: Movement Disorders

Director: Susan Fox, MD, Toronto, ON, Canada

Program Description:

This is part one of a 6-hour course. The aim of these three courses is to give a basic overview of movement disorders for the non-expert. Higher level talks will be presented at other times in the meeting. The field of movement disorders depends highly on clinical skills, including recognition of and differentiation among different types of movement disorders, diagnosis, and differential diagnosis of underlying etiologies. Faculty will aim to sharpen the eye of practitioners seeing movement disorder patients; provide an overview of common and less common movement disorders using videos; discuss how to recognize common and uncommon diagnoses in clinical practice; and provide details on appropriate investigations and brief overview on treatments.

This program complements C77: Movement Disorders for the General Neurologist II and C90: Movement Disorders for the General Neurologist III, but covers independent topics.

Upon Completion:

Participants should be able to recognize and classify the most common abnormal involuntary movements; generate an appropriate

differential diagnosis for different movement disorders; decide on a cost effective list of appropriate test(s); and have a basic strategy for the symptomatic treatment of Parkinson's disease, parkinsonism, chorea, tremor, dystonia, myoclonus, and tics.

Lecture/Faculty:

- ▶ **Introduction to Movement Disorders**
Susan Fox, MD, Toronto, ON, Canada
- ▶ **Tremor**
Elan D. Louis, MD, MS, FAAN, New Haven, CT
- ▶ **Parkinson's Disease**
Susan Fox, MD, Toronto, ON, Canada

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Interactive, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Sunday, April 17, 2016 1:00 p.m.–3:00 p.m.

C77 Movement Disorders for the General Neurologist II

Topic: Movement Disorders

Director: Susan Fox, MD, Toronto, ON, Canada

Program Description:

This is part two of a 6-hour course. The aim of these three courses is to give a basic overview of movement disorders for the non-expert. Higher-level talks will be presented at other times in the meeting. The field of movement disorders depends highly on clinical skills, including recognition of and differentiation among different types of movement disorders, diagnosis, and differential diagnosis of underlying etiologies. Faculty will aim to sharpen the eye of practitioners seeing movement disorder patients; provide an overview of common and less common movement disorders using videos; discuss how to recognize common and uncommon diagnoses in clinical practice; and provide details on appropriate investigations and brief overview on treatments.

This program complements C66: Movement Disorders for the General Neurologist I and C90: Movement Disorders for the General Neurologist III, but covers independent topics.

Upon Completion:

Participants should be able to recognize and classify the most common abnormal involuntary movements; generate an appropriate differential diagnosis for different movement disorders; decide on a cost-effective list of appropriate test(s); and have a basic strategy for the symptomatic treatment of Parkinson's disease, parkinsonism, chorea, tremor, dystonia, myoclonus, and tics.

Lecture/Faculty:

- ▶ **Tics And Myoclonus**
Joseph Jankovic, MD, FAAN, Houston, TX

- ▶ **Atypical Parkinsonism**
Shilpa Chitnis, MD, PhD, FAAN, Dallas, TX

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Sunday, April 17, 2016 3:30 p.m.–5:30 p.m.

C90 Movement Disorders for the General Neurologist III

Topic: Movement Disorders

Director: Susan Fox, MD, Toronto, ON, Canada

Program Description:

This is part three of a 6-hour course. The aim of these three courses is to give a basic overview of movement disorders for the non-expert. Higher-level talks will be presented at other times in the meeting. The field of movement disorders depends highly on clinical skills, including recognition of and differentiation among different types of movement disorders, diagnosis, and differential diagnosis of underlying etiologies. Faculty will aim to sharpen the eye of practitioners seeing movement disorder patients; provide an overview of common and less common movement disorders using videos; discuss how to recognize common and uncommon diagnoses in clinical practice; and provide details on appropriate investigations and brief overview on treatments.

This program complements C66: Movement Disorders for the General Neurologist I and C77: Movement Disorders for the General Neurologist II, but covers independent topics.

Upon Completion:

Participants should be able to recognize and classify the most common abnormal involuntary movements; generate an appropriate differential diagnosis for different movement disorders; decide on a cost-effective list of appropriate test(s); and have a basic strategy for the symptomatic treatment of Parkinson's disease, parkinsonism, chorea, tremor, dystonia, myoclonus, and tics.

Lecture/Faculty:

- ▶ **Chorea**
Tiago Mestre, MD, MSC, Ottawa, ON, Canada
- ▶ **Dystonia**
Elena Moro, MD, Grenoble, France

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Monday, April 18, 2016

1:00 p.m.–3:00 p.m.

C108 Nonmotor Manifestations of Parkinson's Disease I

Topic: Movement Disorders

Director: Charles H. Adler, MD, PhD, FAAN, Scottsdale, AZ

Program Description:

This program will cover the nonmotor features that are now known to pre-date motor Parkinson's disease (PD), as well as those that affect quality of life as PD progresses. PD is a systemic disorder and there will be discussion of the pathological basis for nonmotor features. Data will be presented showing which findings pre-date motor PD and how these may be used to identify individuals at higher risk for developing PD. This includes the evidence that patients with REM sleep behavior disorder are at high risk to develop PD. Methods to assess patients for non-motor symptoms, including questionnaires and examination methods, will be discussed. As quality of life has been shown to be very impacted by nonmotor features of PD, this course will raise awareness of a topic that has not received nearly enough attention by PD and non-PD neurologists.

This program complements C122: Nonmotor Manifestations of Parkinson's Disease II, but covers independent topics.

Upon Completion:

Participants should be able to identify nonmotor features of PD that predate motor signs and discuss methods for assessing nonmotor features, including questionnaires and examination skills.

Lecture/Faculty:

- ▶ **Extranigral Pathology and Premotor Detection of Parkinson's Disease**
Charles H. Adler, MD, PhD, FAAN, Scottsdale, AZ
- ▶ **Diagnosis and Impact of Nonmotor Complications of Parkinson's Disease**
Janis Miyasaki, MD, FAAN, Edmonton, AB, Canada

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Non-Neurologist, Advanced Practice Providers

Monday, April 18, 2016

1:00 p.m.–5:30 p.m.

C116 \$ Clinical Uses of Botulinum Toxin for Dystonia Skills Workshop (registration required)

Topic: Movement Disorders

Director: Diego Torres-Russotto, MD, Omaha, NE

Program Description:

Chemodenervation is one of the most useful treatments for dystonias. However, most neurologists struggle to recognize all presentations of the disorder, or to understand the full gamut of indications where

Botulinum toxin injections could be helpful. Also, most physicians have not been trained to perform the injections. We start with presentations reviewing cervical, periorcular, oromandibular, and limb dystonias, and the evidence for chemodenervation. We also review how to set-up a successful chemodenervation practice. The second part is designed for interactive learning, providing first a session on tips for best injections, and a demonstration session with videos and simulation systems.

This program complements C147: Clinical Usefulness of Botulinum Toxin for Spasticity Skills Workshop and C188: Clinical Uses of Botulinum Toxin for Headache Skills Workshop, but covers independent topics.

Upon Completion:

Participants should be able to enlist indications and contraindications for chemodenervation; select appropriate candidates for Botulinum toxin injections; recognize the phenomenology that leads to the development of an injection plan in patients; and review best practices for the establishment of a successful chemodenervation clinic.

Lecture/Faculty:

- ▶ **Botulinum Toxin Generalities**
Cynthia L. Comella, MD, FAAN, Chicago, IL
- ▶ **Chemodenervation for Cervical Dystonia: Rationale, Muscle Selection, and Dosing**
Cynthia L. Comella, MD, FAAN, Chicago, IL
- ▶ **Chemodenervation for Blepharospasm: Rationale, Muscle Selection, and Dosing**
Diego Torres-Russotto, MD, Omaha, NE
- ▶ **Chemodenervation for Oromandibular Dystonias: Rationale, Muscle Selection, and Dosing**
Pedro Gonzalez-Alegre, MD, Philadelphia, PA
- ▶ **Chemodenervation for Limb Dystonia: Rationale, Muscle Selection, and Dosing**
Brad A. Racette, MD, FAAN, St. Louis, MO
- ▶ **How to Set-up a Successful Chemodenervation Practice**
Diego Torres-Russotto, MD, Omaha, NE
- ▶ **Interactive Sessions**
Faculty

Core Competencies: Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic, Interactive, Practical Tips Through Case Reviews

CME Credits: 3.5

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

New 2-Hour Education Course Format

Educational theory research suggests that learners pay attention and learn better in short amounts of time rather than in long sessions. That's why we've re-tooled this year's education program to offer most courses in 2-hour increments vs. the prior half-day and full-day course structure.

Monday, April 18, 2016

3:30 p.m.–5:30 p.m.

C122 Nonmotor Manifestations of Parkinson's Disease II

Topic: Movement Disorders

Director: Charles H. Adler, MD, PhD, FAAN, Scottsdale, AZ

Program Description:

This program will cover the nonmotor features of Parkinson's disease that have a significant impact on quality of life including cognitive impairment, psychiatric, sleep, and autonomic symptoms and signs. Faculty will discuss treatment options for the various nonmotor features. As quality of life has been shown to be very impacted by nonmotor features of PD, this course will raise awareness of a topic that has not received nearly enough attention by PD and non-PD neurologists.

This program complements C108: Nonmotor Manifestations of Parkinson's Disease I, but covers independent topics.

Upon Completion:

Participants should be able to discuss methods for assessing cognitive, sleep, and autonomic symptoms and describe current treatment options for these nonmotor features of PD.

Lecture/Faculty:

- **Mild Cognitive Impairment, Dementia, and Psychiatric Symptoms in Parkinson's Disease**
Jennifer G. Goldman, MD, MS, FAAN, Chicago, IL
- **Sleep and Autonomic Complications in Parkinson's Disease**
Stewart A. Factor, DO, FAAN, Atlanta, GA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Non-Neurologist, Advanced Practice Providers

Tuesday, April 19, 2016

6:30 a.m.–8:30 a.m.

C132 Balance and Gait Disorders

Topic: Movement Disorders

Director: Bastiaan R. Bloem, MD, PhD, Nijmegen, Netherlands

Program Description:

Mobility is a prized ability. Disorders of balance and gait impair mobility, reduce independence, lead to falls and fall-related injuries, reduce the quality of life, and are associated with reduced survival. The neurologist needs to be able to recognize the clinical patterns of balance and gait disorders in order to diagnose and intervene effectively.

Faculty will review the clinical exam of gait and balance and the latest classification for gait and balance disorders, then discuss video examples of various gait and balance disorders. Audience observations and questions about the video examples will be encouraged.

Upon Completion:

Participants should better appreciate the clinical importance of gait and balance disorders. Participants should also gain techniques to improve their exam of gait and balance, and learn to use the current classification of gait and balance disorders in a clinically useful manner. Participants should also learn to recognize several common gait and balance disorders.

Lecture/Faculty:

- **Clinical Assessment of Gait and Balance Disorders**
Bastiaan R. Bloem, MD, PhD, Nijmegen, Netherlands
John G. Nutt, MD, FAAN, Portland, OR

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Geriatrician, Rehabilitation Specialist, Nursing Home Specialist

Tuesday, April 19, 2016

6:30 a.m.–8:30 a.m.

C135 Neuro Flash: Child Neurology

Topics: Child Neurology and Developmental Neurology; Movement Disorders

Director: Erika Fullwood Augustine, MD, Rochester, NY

See complete course description on page 46 »

Tuesday, April 19, 2016

1:00 p.m.–3:00 p.m.

C147 \$ Clinical Usefulness of Botulinum Toxin for Spasticity Skills Workshop (registration required)

Topic: Movement Disorders

Director: Allison Brashear, MD, MBA, FAAN, Winston Salem, NC

Program Description:

This program will exposure participants to the typical patient who would benefit from spasticity treatment, including assessments, outcomes, and long-term planning for the use of botulinum toxin in patients with spasticity. Faculty will review the use of botulinum toxin in patients with spasticity from stroke, traumatic brain injury, and in children.

This program complements C116: Clinical Uses of Botulinum Toxin for Dystonia Skills Workshop and C188: Clinical Uses of Botulinum Toxin for Headache Skills Workshop, but covers independent topics.

Upon Completion:

Participants should be able to correctly identify patients who may benefit from injections; discuss the anatomy of the muscle to be treated; discuss the different type of toxins used including doses and deliver modality; and discuss the long term goals of treatment of spasticity.

Lecture/Faculty:

- ▶ Use of Botulinum Toxin in Spasticity: Patient Assessment and Outcomes
Allison Brashear, MD, MBA, FAAN, Winston Salem, NC
- ▶ Botulinum Toxin for Spasticity Localization and Dosing
Faculty
- ▶ Special Populations: Use of Botulinum Toxin in Children
Ann H. Tilton, MD, FAAN, New Orleans, LA
- ▶ Pearls in Use of Botulinum Toxin in Spasticity Management
Faculty

Core Competencies: Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Tuesday, April 19, 2016 3:30 p.m.–5:30 p.m.

C158 The Dystonias: Diagnosis, Treatment, and Update on Causes

Topic: Movement Disorders

Director: Daniel Tarsy, MD, FAAN, Boston, MA

Program Description:

Dystonia is one of the least understood and most often misdiagnosed movement disorders. Using video demonstrations, faculty will address the clinical spectrum and classification of the dystonias, current concepts regarding the underlying causes, strategies for diagnostic evaluation, and medical and surgical treatment strategies.

Upon Completion:

Participants should become familiar with the varied clinical manifestations of dystonia, the current classification of the dystonias, the current understanding of the etiology and pathogenesis of dystonia, and treatment options for dystonia.

Lecture/Faculty:

- ▶ The Dystonias: Diagnosis, Treatment, and Update on Causes
Samuel A. Frank, MD, Boston, MA
Rachel J. Saunders-Pullman, MD, New York, NY
Daniel Tarsy, MD, FAAN, Boston, MA

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic, Video Demonstrations, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Visit the Exhibit Hall

Don't forget to stop by the Exhibit Hall to network and preview the latest products and services available in the neurologic industry.

Wednesday, April 20, 2016 6:30 a.m.–8:30 a.m.

C173 Therapy of Movement Disorders: A Case-based Approach

Topic: Movement Disorders

Director: Stephen G. Reich, MD, FAAN, Baltimore, MD

Program Description:

Faculty will focus on the management of Parkinson's disease using case presentations to demonstrate the broad spectrum of problems encountered in Parkinson's disease, along with a discussion of management options. Cases will include choice of initial therapy, management of motor fluctuations, identifying optimal candidates for deep brain stimulation, recognition and management of nonmotor features of Parkinson's disease, as well as management of late complications, including dementia. The emphasis will be on practical therapeutic suggestions including new therapies. In addition to Parkinson's disease, this course will use a similar case-based approach to review treatment for other selected movement disorders including essential tremor, tardive dyskinesia, and Huntington's disease.

Upon Completion:

Participants should be familiar with practical treatment options for dealing with all aspects of Parkinson's disease, including newer therapies, as well as be familiar with management of essential tremor, tardive dyskinesia, and Huntington's disease.

Lecture/Faculty:

- ▶ Movement Disorders: A Case-based Approach
Stewart A. Factor, DO, FAAN, Atlanta, GA
Stephen G. Reich, MD, FAAN, Baltimore, MD

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Non-Neurologist, Nurses, Physician's Assistants

Wednesday, April 20, 2016 1:00 p.m.–3:00 p.m.

C188 \$ Clinical Uses of Botulinum Toxin for Headache Skills Workshop (registration required)

Topic: Movement Disorders

Director: Andrew M. Blumenfeld, MD, San Diego, CA

Program Description:

This program will review the functional anatomy of the head and neck muscles that are involved in the Botulinum toxin injections for chronic migraine. The approach to injecting patients with ptosis and neck weakness will be reviewed. The efficacy data and common side effects will be reviewed. The diagnostic criteria for chronic migraine and medication overuse headache will be reviewed.

This program complements C116: Clinical Uses of Botulinum Toxin for Dystonia Skills Workshop and C147: Clinical Usefulness of Botulinum Toxin for Spasticity Skills Workshop, but covers independent topics.

Upon Completion:

Participants should be able to inject patients with Onabotulinumtoxin A even if ptosis and neck weakness are present; understand the differential diagnosis of ptosis and the functional anatomy relating to this; and know the diagnostic criteria for chronic migraine.

Lecture/Faculty:

- ▶ Botulinum Toxin Workshop for Chronic Migraine
Andrew M. Blumenfeld, MD, San Diego, CA
Jack D. Schim, MD, San Diego, CA

Core Competency: Practice-Based Learning and Improvement

Teaching Style: Interactive, Audience Participation, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist

Wednesday, April 20, 2016 3:30 p.m.–5:30 p.m.

C197 Approach to the Shaky Patient

Topic: Movement Disorders

Director: Vicki Shanker, MD, New York, NY

Program Description:

Tremor is a common presentation in the neurologist's office and may be normal or pathologic. Although phenomenologically there are several characteristic differences of the disease states that produce these tremors, parkinsonian tremor, essential tremor, and dystonic tremor are often confused, leading to early misdiagnosis and delay in care. Through didactic lecture and video clips, in addition to case-based presentations, faculty will review key distinguishing characteristics of common and uncommon disease entities that produce tremor and provide clinical pearls for diagnosis. This program is geared for general practitioners and trainees.

Upon Completion:

Participants should be able to recognize the clinical features of a parkinsonian tremor, essential tremor, and dystonic tremor as well as less common tremor conditions, and be able to apply clinical techniques to distinguish these disease entities in the office.

Lecture/Faculty:

- ▶ Introduction in the Clinical and Diagnostic Approach to Tremor
Vicki Shanker, MD, New York, NY
- ▶ Tremor in Parkinson's Disease
William L. Severt, MD, PhD, New York, NY
- ▶ Tremor in Dystonia
William L. Severt, MD, PhD, New York, NY
- ▶ Tremor in Essential Tremor
Vicki Shanker, MD, New York, NY
- ▶ Uncommon Tremors: Psychogenic and Beyond
Vicki Shanker, MD, New York, NY

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Audience Participation, Video Review

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Non-Neurologist

Thursday, April 21, 2016 6:30 a.m.–8:30 a.m.

C205 Cerebellar and Afferent Ataxias: Diagnosis and Management

Topic: Movement Disorders

Director: Massimo Pandolfo, MD, FAAN, Brussels, Belgium

Program Description:

Ataxia is the predominant manifestation of many acquired and inherited neurologic disorders affecting the cerebellum, its connections, and the afferent proprioceptive pathways. This course reviews the phenomenology and etiologies of cerebellar and afferent ataxias and provides indications for a rational approach to diagnosis and management. Particular attention will be given to inherited ataxias and new developments in genetic testing. Through case presentations, faculty will discuss the diagnostic process and test result interpretation.

Upon Completion:

Participants should become familiar with the differential diagnoses and work-up, including genetic testing, of ataxias.

Lecture/Faculty:

- ▶ Overview of Cerebellar and Afferent Ataxias
Massimo Pandolfo, MD, FAAN, Brussels, Belgium
- ▶ The Dominantly Inherited Spinocerebellar Ataxias
Stefan M. Pulst, MD, FAAN, Salt Lake City, UT
- ▶ Recessive, X-linked, and Metabolic Ataxias
Massimo Pandolfo, MD, FAAN, Brussels, Belgium
- ▶ Case Presentations
Faculty

Core Competency: Medical Knowledge

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Thursday, April 21, 2016 6:30 a.m.–8:30 a.m.

C212 Overview of Parkinson's Disease

Topic: Movement Disorders

Director: Melissa J. Nirenberg, MD, PhD, FAAN, New York, NY

Program Description:

This program will provide participants with a global overview of Parkinson's disease, including the latest information about pathophysiology, genetic and environmental risk factors, biomarkers, and clinical phenomenology. Faculty will focus on the evidence-

Course Descriptions

Movement Disorders

based management of motor symptoms, nonmotor symptoms, and complications of dopaminergic therapy, including the role of new and emerging medical and surgical treatments.

Upon Completion:

Upon completion, participants should have a broad knowledge about Parkinson's disease, including pathophysiology, biomarkers, risk factors, motor and nonmotor symptoms, complications of dopaminergic therapy, and evidence-based medical and surgical therapies.

Lecture/Faculty:

- Overview of Parkinson's Disease: Part I
Hubert H. Fernandez, MD, FAAN, Cleveland, OH
- Overview of Parkinson's Disease: Part II
Melissa J. Nirenberg, MD, PhD, FAAN, New York, NY

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Non-Neurologist, Advanced Practice Providers

Thursday, April 21, 2016 1:00 p.m.–3:00 p.m.

C215 Deep Brain Stimulation Management I

Topic: Movement Disorders

Director: Jill L. Ostrem, MD, San Francisco, CA

Program Description:

Deep brain stimulation is widely used to treat advanced, medication-resistant movement disorders, including essential tremor, Parkinson's disease, and dystonia. An understanding of the DBS device, proper patient selection, and optimized postoperative management is essential to achieve successful outcomes with DBS, maximize patient benefits, and minimize adverse effects or complications. Each of these key issues will be discussed, with an emphasis on practical information for the clinician. This course has been divided into two sequential sessions, and those registering for the course are encouraged to participate in both Part one and Part two for a comprehensive overview of the topic. Part one will focus on basic DBS issues and Part two on more advanced DBS issues. The program will include case-based presentations; discussion of patient cases regarding patient candidacy, management of DBS, or other questions will occur at the end of Part two.

This program complements C226: Deep Brain Stimulation Management II, but covers independent topics.

Upon Completion:

Participants should be able to describe the rationale for the use of DBS and the patients for whom the treatment is most indicated and have a general understanding and appreciate the principles of initial DBS stimulator activation and programming.

Lecture/Faculty:

- Deep Brain Stimulation Management I
Michael Pourfar, MD, New York, NY
Leonard Verhagen Metman, MD, PhD, Chicago, IL

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Audience Participation, Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Nurse Practitioners, Registered Nurses

Thursday, April 21, 2016 3:30 p.m.–5:30 p.m.

C226 Deep Brain Stimulation Management II

Topic: Movement Disorders

Director: Jill L. Ostrem, MD, San Francisco, CA

Program Description:

Deep brain stimulation (DBS) is widely used to treat advanced, medication-resistant movement disorders, including essential tremor, Parkinson's disease, and dystonia. An understanding of the DBS device, proper patient selection, and optimized postoperative management is essential to achieve successful outcomes with DBS, maximize patient benefits, and minimize adverse effects or complications. Each of these key issues will be discussed, with an emphasis on practical information for the clinician. This course has been divided into two sequential sessions, and those registering for the course are encouraged to participate in both Part one and II for a comprehensive overview of the topic. Part one will focus on basic DBS issues and Part two on more advanced DBS issues. The program will include case-based presentations, and discussion of patient cases regarding patient candidacy, management of DBS, or other questions will take place in Part two.

This program complements C215: Deep Brain Stimulation Management I, but covers independent topics.

Upon Completion:

Participants should be able to recognize the issues involved in the short- and long-term management of movement disorder patients treated with DBS and be informed about novel and emerging use of DBS.

Lecture/Faculty:

- Deep Brain Stimulation Management II
Michael S. Okun, MD, FAAN, Gainesville, FL
Jill L. Ostrem, MD, San Francisco, CA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Nurse Practitioners, Nurses, Advanced Practice Providers

MS and CNS Inflammatory Disease

Saturday, April 16, 2016

6:30 a.m.–8:30 a.m.

C18 Multiple Sclerosis Overview: Basic and Translational Science

Topics: MS and CNS Inflammatory Disease; General Neurology

Director: Michael K. Racke, MD, Columbus, OH

Program Description:

Improved management of multiple sclerosis (MS) would result from understanding of MS pathogenies, risk factors, immune abnormalities, and mechanism of action of MS treatments, including understanding of complications that can result from those treatments. Faculty will discuss new understanding in MS pathogenesis and how immune interventions can alter disease pathogenesis for an improved clinical outcome, and the mechanism of action of current MS therapies.

This program complements C32: Multiple Sclerosis Overview: Clinical Advances I and C44: Multiple Sclerosis Overview: Clinical Advances II, but covers independent topics.

Upon Completion:

Participants should be able to identify steps in MS pathogenies, treatments used in MS management, and how approved therapies affect the immune response and potential complications resulting from those interventions.

Lecture/Faculty:

- ▶ MS Pathogenesis
Olaf Stuve, MD, PhD, FAAN, Dallas, TX
- ▶ Mechanism of MS Therapies and Their Use
Michael K. Racke, MD, Columbus, OH

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Saturday, April 16, 2016

1:00 p.m.–3:00 p.m.

C32 Multiple Sclerosis Overview: Clinical Advances I

Topic: MS and CNS Inflammatory Disease

Director: Myla Goldman, MD, Charlottesville, VA

Program Description:

The first step in treating the MS patient—is making the correct diagnosis. To make an MS diagnosis, one must understand the spectrum of presentations; for example—first episode or MRI-only forms of MS, so called—Clinically Isolated Syndrome and Radiologically Isolated Syndrome, respectively. Clinicians should also recognize alternative diagnoses or “MS mimics”. MRI is an

essential tool in the early stages of diagnosis and over the course of a patient's care and management. Clinicians need to thoughtfully use MRI to monitor patients and guide decisions about when and if to change treatment. Faculty will review basic pathophysiology and risk factors in MS, common differential diagnostic considerations, clinical MRI tools and applications in the context of MS diagnosis and determination of treatment response.

This program complements C18: Multiple Sclerosis Overview: Basic and Translational Science and C44: Multiple Sclerosis Overview: Clinical Advances II, but covers independent topics.

Upon Completion:

Participants should be able to feel comfortable diagnosing MS and excluding clinically appropriate differential diagnoses. Participants will have increased confidence in using clinical MRI tools and have a strategy for integrating this into their MS practice.

Lecture/Faculty:

- ▶ Understanding and Diagnosing Multiple Sclerosis
Myla Goldman, MD, Charlottesville, VA
- ▶ MRI and MS: Is A Picture Worth A Thousand Words?
Scott D. Newsome, DO, Baltimore, MD

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Non-Neurologist, Advanced Practice Providers

Saturday, April 16, 2016

3:30 p.m.–5:30 p.m.

C44 Multiple Sclerosis Overview: Clinical Advances II

Topic: MS and CNS Inflammatory Disease

Director: Scott D. Newsome, DO, Baltimore, MD

Program Description:

It is extremely important for clinicians treating MS to enhance their knowledge base about the changing landscape of the MS disease modifying therapies (DMTs). Making treatment decisions for an individual MS patient is a daunting task and the individualized patient benefit-risk assessment becomes increasingly difficult as new therapies emerge. Furthermore, if these therapies become available, clinicians need to have a full understanding of their benefit-risk profiles. Faculty will review the efficacy and safety profiles of current and late-stage emerging MS DMTs.

It is equally challenging to define what constitutes optimal and suboptimal response to DMTs for an individual patient. Moreover, it is critical for clinicians to be able to recognize short-term clinical and paraclinical factors that may help identify patients at high risk for long-term disability. Faculty will review key considerations in MS clinical practice to address the above challenges in both didactic and case-based formats.

This program complements C18: Multiple Sclerosis Overview: Basic and Translational Science and C32: Multiple Sclerosis Overview: Clinical Advances I, but covers independent topics.

Course Descriptions

MS and CNS Inflammatory Disease

Upon Completion:

Participants should feel more confident in prescribing and monitoring MS disease modifying therapies (DMTs) as it relates to their efficacy and safety profiles along with develop a better understanding of key considerations in clinical practice. Participants will also become familiar with late-stage DMTs that have a strong potential of getting approved for use in MS. Participants should also be able to recognize what factors put an MS patient at risk for long-term disability and when to consider switching therapies.

Lecture/Faculty:

- **The Expanding Armamentarium of Multiple Sclerosis Therapeutics**
Scott D. Newsome, DO, Baltimore, MD
- **Case Based Considerations in Clinical Practice for Multiple Sclerosis**
Myla Goldman, MD, Charlottesville, VA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Saturday, April 16, 2016 6:30 p.m.–9:30 p.m.

C54 Case Studies: Multiple Sclerosis

Topic: MS and CNS Inflammatory Disease

Director: John Corboy, MD, FAAN, Denver, CO

Program Description:

Diagnostic and treatment issues in multiple sclerosis (MS) and related demyelinating disorders have become more complex, with multiple new treatment options. Through presentations of common and more challenging cases, faculty will facilitate a discussion on differential diagnosis, laboratory and MRI evaluation, ethical issues, and treatment of MS and related conditions. Each case will be followed by an overview and update on the topic.

Upon Completion:

Participants should be familiar with the differential diagnoses, work-up, and treatment of MS and related conditions, including interpretation of MRI studies for MS and other disorders that affect the brain and spinal cord.

Lecture/Faculty:

- **Case Studies: MS**
Enrique Alvarez, MD, PhD, Denver, CO
John Corboy, MD, FAAN, Denver, CO
Mary Willis, MD, Cleveland, OH

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 3.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Sunday, April 17, 2016

6:30 a.m.–8:30 a.m.

C61 Morning Report: Multiple Sclerosis

Topic: MS and CNS Inflammatory Disease

Director: Nancy L. Sicotte, MD, FAAN, Los Angeles, CA

Program Description:

Multiple sclerosis remains a diagnostic and management challenge to the clinician. Faculty will present a complex and evolving case of multiple sclerosis with focused questions directed to attendees who will use the audience response system to enhance the discussion of all the issues pertinent to this patient.

Upon Completion:

Participants should be familiar with the differential diagnosis, evaluation, and treatment of a complex multiple sclerosis patient, including how to conceptualize the balance of risk and benefit of newer therapies in MS.

Lecture/Faculty:

- **Morning Report: Introduction and Case Report**
Nancy L. Sicotte, MD, FAAN, Los Angeles, CA
- **MS Variants and Mimics**
Dean M. Wingerchuk, MD, FAAN, Scottsdale, AZ
- **Treatment Options: Weighing Risks and Benefits**
Robert J. Fox, MD, FAAN, Cleveland, OH

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Interactive, Audience Participation, Didactic, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Non-Neurologist, Mid-Level Providers

Sunday, April 17, 2016

3:30 p.m.–5:30 p.m.

C85 Multiple Sclerosis Essentials

Topic: MS and CNS Inflammatory Disease

Director: Stephen Krieger, MD, New York, NY

Program Description:

Faculty will use a series of illustrative cases to bring participants up-to-date on current diagnosis and management of multiple sclerosis and other demyelinating disorders. Use of the Audience Response System will enable participants to exercise their own judgment at multiple decision nodes as each case unfolds, and compare their own choices with those of their peers and faculty. Cases have been carefully selected to represent real situations regularly encountered in the practice of two expert MS clinicians.

Upon Completion:

Participants should be familiar with current issues related to the diagnosis and treatment of patients with multiple sclerosis and related demyelinating disorders, and should recognize areas of both consensus and controversy in the field.

Lecture/Faculty:

- ▶ Contemporary Case Challenges in Multiple Sclerosis
Stephen Krieger, MD, New York, NY
Aaron E. Miller, MD, FAAN, New York, NY

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Monday, April 18, 2016

6:30 a.m.–8:30 a.m.

C101 Controversies in Multiple Sclerosis Therapy

Topic: MS and CNS Inflammatory Disease

Director: Mark Keegan, MD, Rochester, MN

Program Description:

Disease-modifying therapies for relapsing-remitting multiple sclerosis (RRMS) are considered to be most effective when started early in the course of the disease. Should MS patients with stable disease be trialed off of MS disease modifying therapy and if so under what circumstances? Should MS patients be assessed for seropositivity for JC virus antibody when considering oral and other novel MS therapies? Is medical cannabis warranted for symptomatic MS therapy? Definitive evidence-based criteria may remain uncertain, but faculty will discuss and debate the merits, the available evidence, and their own clinical experience that can assist participants in making these important treatment decisions.

Upon Completion:

Participants should be able to describe and discuss the relative pros and cons of a number of controversies in MS evaluation and therapy.

Lecture/Faculty:

- ▶ Resolved: MS Disease Modifying Medications can be Discontinued in Patients with Stable Disease.
Robert J. Fox, MD, FAAN, Cleveland, OH
Brian G. Weinshenker, MD, FAAN, Rochester, MN
- ▶ Resolved: Serum JCV Antibody Status Should be Assessed Prior to Initiating Natalizumab or New MS Therapies and JCV-Positive MS Patients Should Discontinue Natalizumab
Robert J. Fox, MD, FAAN, Cleveland, OH
Mark Keegan, MD, Rochester, MN
- ▶ Resolved: Medical Cannabis is Appropriate Therapy for Symptomatic Treatment of MS
Mark Keegan, MD, Rochester, MN
Brian G. Weinshenker, MD, FAAN, Rochester, MN

Core Competency: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Monday, April 18, 2016

1:00 p.m.–3:00 p.m.

C109 Pediatric MS: Diagnosis and Treatment

Topics: MS and CNS Inflammatory Disease;
 Child Neurology and Developmental Neurology

Director: John W. Rose, MD, FAAN, Salt Lake City, UT

Program Description:

Pediatric demyelinating diseases are a multi-faceted group of disorders now being understood in greater depth. The program will focus on pediatric MS with attention to emerging demographic and clinical features of the disease. Faculty will stress the differentiation of MS from ADEM and NMO in pediatric patients, review the status of immunotherapies for children with demyelinating diseases, and present the particular MRI features of these demyelinating diseases in children. The program will integrate the new knowledge in the context of case based exercises, and selected studied cases will be presented to illustrate current concepts in diagnosis, differential diagnosis, and therapy of pediatric multiple sclerosis.

Upon Completion:

Participants should be able to know the clinical and MRI parameters of pediatric demyelinating diseases, understand diagnosis of pediatric MS and related disorders, differentiate pediatric demyelinating diseases, understand the current treatment options, know the status of clinical trials in pediatric MS, and now how to access continuing education/discussion specific for pediatric MS.

Lecture/Faculty:

- ▶ Diagnosis of Pediatric MS
Teri Schreiner, MD, MPH, Aurora, CO
- ▶ Treatment of Pediatric MS
Emmanuelle Waubant, MD, FAAN, San Francisco, CA

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Interactive, Didactic, Audience Participation, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Tuesday, April 19, 2016

1:00 p.m.–3:00 p.m.

C144 Multiple Sclerosis Therapy: Symptom Management

Topic: MS and CNS Inflammatory Disease

Director: Jonathan L. Carter, MD, Scottsdale, AZ

Program Description:

Symptom management in MS remains a very important determinant of quality of life in MS patients, even with the advent of increasing numbers of MS disease-modifying therapies. Symptoms of MS may be under-recognized and there are knowledge gaps among neurologists regarding management of these common symptoms.

Course Descriptions

MS and CNS Inflammatory Disease

Faculty will review the management of common MS symptoms including spasticity, fatigue, gait disorders, bladder problems, bowel problems, and sexual dysfunction, and conclude with a panel discussion regarding management of these and other commonly encountered symptoms in MS patients.

This program complements C181: Multiple Sclerosis Therapy: Disease-modifying Treatment I and C194: Multiple Sclerosis Therapy: Disease-modifying Treatment II, but covers independent topics.

Upon Completion:

Participants should be able to diagnose and treat symptoms of fatigue, sleep disorders, spasticity, gait difficulties, bladder and bowel symptoms, and sexual dysfunction in MS patients.

Lecture/Faculty:

- ▶ **Management of Spasticity, Fatigue, and Sleep Disorders in MS**
Jonathan L. Carter, MD, Scottsdale, AZ
- ▶ **Management of Ambulatory Dysfunction in MS**
Faculty
- ▶ **Management of GU Dysfunction: When MS Hits Below the Belt**
Barbara S. Giesser, MD, FAAN, Los Angeles, CA
- ▶ **Case-based Panel Discussion: MS Symptom Management**
Faculty

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Audience Participation, Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Wednesday, April 20, 2016 1:00 p.m.–3:00 p.m.

C181 Multiple Sclerosis Therapy: Disease-modifying Treatment I

Topic: MS and CNS Inflammatory Disease

Director: Bruce A. C. Cree, MD, PhD, MCR, San Francisco, CA

Program Description:

Disease-modifying treatments in MS are one of the most rapidly evolving areas of therapeutic intervention in neurology. As new treatments become available, the options for patients, and their prescribing physicians, increases. Many of the newer therapies have complex risk: benefit profiles and require specialized expertise for safe and effective administration. This course will focus on therapeutic strategies and risk mitigation of currently available disease-modifying therapies. Proper utilization of these drugs and risk assessment will be discussed. Specific case studies will be utilized to cover the most frequent issues arising from MS treatment strategies.

This program complements C144: Multiple Sclerosis Therapy: Symptom Management and C194: Multiple Sclerosis Therapy: Disease-modifying Treatment II, but covers independent topics.

Upon Completion:

Participants should be familiar with the indications and risks associated with approved disease-modifying agents in multiple sclerosis, and be better able to identify the appropriate patient populations for the newer agents.

Lecture/Faculty:

- ▶ **Treatment Escalation: When and How to Think About Switching A Patient to Another Disease-modifying Therapy**
Faculty
- ▶ **Risk Stratification and Mitigation**
Bruce A. C. Cree, MD, PhD, MCR, San Francisco, CA
- ▶ **Case Discussion**
Faculty

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Wednesday, April 20, 2016 3:30 p.m.–5:30 p.m.

C194 Multiple Sclerosis Therapy: Disease-modifying Treatment II

Topic: MS and CNS Inflammatory Disease

Director: Bruce A. C. Cree, MD, PhD, MCR, San Francisco, CA

Program Description:

Disease-modifying treatments in MS are one of the most rapidly evolving areas of therapeutic intervention in neurology. As new treatments become available, the options for patients, and their prescribing physicians, increases. Many of the newer therapies have complex risk: benefit profiles and require specialized expertise for safe and effective administration. This course will focus on mechanism of action and emerging treatment options. Proper utilization immune suppressants and immune modulators and risk assessment will be discussed. Specific case studies will be utilized to cover the most frequent issues arising from MS treatment strategies.

This program complements C144: Multiple Sclerosis Therapy: Symptom Management and C181: Multiple Sclerosis Therapy: Disease-modifying Treatment I, but covers independent topics.

Upon Completion:

Participants should be able to understand the differences between immune suppressant and immune modulators and how based on mechanism of action a treatment can have varying impacts on immune regulation. Participants will be aware of novel or emerging treatments including medications that may effect remyelination, neural protection, control endogenous retroviruses.

Lecture/Faculty:

- ▶ **Immunomodulation and Immunosuppression: Mechanisms of Action of MS Treatments**
Faculty

► Emerging MS Therapies

Gavin Giovannoni, MD, London, United Kingdom

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Thursday, April 21, 2016

6:30 a.m.–8:30 a.m.

C206 Neuro Flash: MRI and Multiple Sclerosis

Topics: MS and CNS Inflammatory Disease;
General Neurology

Director: Robert T. Naismith, MD, St. Louis, MO

Program Description:

Faculty will review the latest imaging data from phase II and III clinical trials to help interpret efficacy and mechanism of action, in relation to clinical benefit. The latest literature and consensus guidelines will be discussed on the use of MRI in clinical practice to assess subclinical disease activity and response to treatment. Recommendations will be provided on how to collaborate with neuroradiology to obtain appropriate MRI sequences and reports for the care of patients.

Upon Completion:

Participants should better interpret different imaging endpoints in clinical trials as it relates to mechanism of action and efficacy, particularly in reference to changes in brain volume and gadolinium enhancing lesions.

Participants should understand when to utilize MRI in the routine monitoring of their MS patients, when MRI changes should warrant a change in therapy, and when MRI changes warrant an increase in monitoring strategies. Participants should feel more comfortable collaborating with their neuroradiology colleagues to get reports suitable for patient decision-making.

Lecture/Faculty:

- **MRI in MS Clinical Trials: Implications for Efficacy, Mechanisms of Action, and Patient Selection**
Anthony Traboulsee, MD, Vancouver, BC, Canada
- **MRI Monitoring for Optimal Response in MS Clinical Practice**
Robert T. Naismith, MD, St. Louis, MO

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Thursday, April 21, 2016

1:00 p.m.–3:00 p.m.

C216 Neuromyelitis Optica Spectrum Disorders

Topic: MS and CNS Inflammatory Disease

Director: Dean M. Wingerchuk, MD, FAAN, Scottsdale, AZ

Program 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 scientific advances in understanding the immunopathology of the disease, assess the status of available diagnostic AQP4-IgG assays and of emerging autoantibodies associated with NMOSD clinical phenotypes (such as MOG-IgG), describe the new International Panel for NMO Diagnosis diagnostic criteria for NMOSD, and summarize a practical approach to treatment and prevention of attacks. Case presentations will be used to illustrate key learning points during lectures and in a case-based discussion session.

Upon Completion:

Participants should be able to understand the clinical, neuroimaging, laboratory, and pathologic characteristics of NMOSD; compare the utility of AQP4-IgG assay methods; recognize clinical characteristics associated with MOG-IgG; be able to discuss elements of the newly revised NMOSD diagnostic criteria; and describe approaches to prevention and treatment of acute NMOSD attacks.

Lecture/Faculty:

- **NMOSD: Scientific Update**
Stacey Clardy, MD, PhD, Salt Lake City, UT
- **NMOSD: Clinical Update**
Dean M. Wingerchuk, MD, FAAN, Scottsdale, AZ
- **Case-based Discussion**
Faculty

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Audience Participation, Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

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Course Descriptions

Neuro Trauma, Critical Care, and Sports Neurology

Neuro Trauma, Critical Care, and Sports Neurology

Saturday, April 16, 2016

1:00 p.m.–3:00 p.m.

C38 **\$ Sports Concussion Skills Workshop I** (registration required)

Topic: Neuro Trauma, Critical Care, and Sports Neurology

Director: Vernon B. Williams, MD, Los Angeles, CA

Program Description:

Increasing and evolving opportunities exist for neurologists to participate in evaluation and management of sports-related concussion in the acute, "sideline," and ringside setting. These environments represent a significant departure from office-based, hospital and emergency department evaluation of the concussed athlete. The acute environment requires awareness, practice, and development of specific skills. This program will involve review of hands-on, practical pearls and clinical skills aimed at concussion management in the field and in real-time. Faculty will discuss "sideline"-related topics including location-specific examination (athlete down on field, on the sideline, or in the locker room), sideline etiquette and best practices (positioning, observation, communication), and expert-level clinical pearls associated with the use of common assessment tools. In addition, the specific concussion-related skills associated with "ringside" physician activity, and coverage of combat sports/martial arts will be reviewed in a practical and interactive format.

This program complements C49: Sports Concussion Skills Workshop II, but covers independent topics.

Upon Completion:

Participants should be able to appropriately assess and provide acute recommendations to athletes, trainers, coaches, parents, and other stakeholders in the acute sports related concussion setting using practical skills, as well as be aware of the unique aspects of "real-time" concussion assessment and integration into the athletic event environment.

Lecture/Faculty:

- ▶ **Introduction and Review of the Landscape**
Vernon B. Williams, MD, Los Angeles, CA
- ▶ **Athlete/Player Down: Catastrophic and Immediate Pre-Surgical Care**
Vernon B. Williams, MD, Los Angeles, CA
- ▶ **Sideline Skills**
Anthony G. Alessi, MD, FAAN, Norwich, CT
- ▶ **Ringside Skills**
Tad D. Seifert, MD, Louisville, KY
- ▶ **Cases, Questions, and Answers**
Faculty

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Saturday, April 16, 2016

3:30 p.m.–5:30 p.m.

C49 **\$ Sports Concussion Skills Workshop II** (registration required)

Topic: Neuro Trauma, Critical Care, and Sports Neurology

Director: Vernon B. Williams, MD, Los Angeles, CA

Program Description:

Neurologists are increasingly involved in evaluation and management of individuals with sports concussion. An expert-level understanding of the brain common to the practicing neurologist will be augmented by expert-level description of clinical skills and pearls specific to the issue of concussion evaluation. Specifically, the most commonly encountered symptoms associated with severe concussion and prolonged recovery will be reviewed in the context of specific skills associated with clinical evaluation. Faculty will discuss skills associated with migraine, cervicogenic, and atlanto-axial aspects of post-concussive headache; demonstrate skills related to post-concussive visual symptoms and examination/evaluation of visual fields, acuity, ocular motility, and visual processing; and discuss and demonstrate skills associated with vestibular assessments, as well as clinical skills related to return to learn and return to play in atypical scenarios (concussed athletes with sub-chronic and chronic symptoms).

This program complements C38: Sports Concussion Skills Workshop I, but covers independent topics.

Upon Completion:

Participants should be able to provide best-practice-level care to individuals with sports concussion by combining specific evaluation and management skills with general neurologic fund of knowledge. The skills and knowledge gained through program participation should result in comfort evaluating and treating concussed athletes with uncomplicated as well as prolonged or severe symptom presentations.

Lecture/Faculty:

- ▶ **Introduction and Review of the Landscape**
Vernon B. Williams, MD, Los Angeles, CA
- ▶ **Post-Concussive Headache Skills**
Mahan Chehrenama, DO, Mc Lean, VA
- ▶ **Vision, Vestibular, and Sleep Disorder Skills**
Michael S. Jaffee, MD, FAAN, Charlottesville, VA
- ▶ **Return to Learn and Play Skills: Beyond "Step-Wise RTP"**
Jeffrey S. Kutcher, MD, FAAN, Ann Arbor, MI
- ▶ **Cases, Questions, and Answers**
Faculty

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Saturday, April 16, 2016 6:30 p.m.–9:30 p.m.

C58 Case Studies in the ICU

Topic: Neuro Trauma, Critical Care, and Sports Neurology

Director: Nicholas J. Silvestri, MD, Buffalo, NY

Program Description:

Neurologic complications in ICU patients often have a substantial negative impact on their outcome. Neurologists are being asked increasingly to evaluate patients in intensive care units. They are often called to assess unusual neurological manifestations of other primary diseases, evaluate the consequences of critical care therapy, offer a prognosis, or determine brain death. Using a case-based approach, faculty will provide the core elements of modern neurologic critical care and suggested approach to the management of some of the most commonly encountered problems. Topics will include: approach to neurologic problems in the ICU, including failure to awaken after cardiac arrest, brain death, neuromuscular considerations in the ICU, difficulty-to-wean off artificial ventilation, and epilepsy, including status epilepticus. Interactions between faculty and participants will be encouraged.

Upon Completion:

Participants should have a comprehensive understanding of the general aspects of critical care of neurologic patients and common neurologic problems encountered in the ICU setting; be able to incorporate evidence-driven data into their recommendations; and be able to evaluate and treat common disorders in the ICU and provide an opinion regarding prognosis.

Lecture/Faculty:

- ▶ **Case Studies in Coma and Brain Death**
David M. Greer, MD, FAAN, New Haven, CT
- ▶ **Case Studies in Epilepsy and Status Epilepticus in the ICU**
Julie Roth, MD, Providence, RI
- ▶ **Case Studies in Neuromuscular Disorders in the ICU**
Nicholas J. Silvestri, MD, Buffalo, NY

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Case Based, Interactive

CME Credits: 3.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Sunday, April 17, 2016

1:00 p.m.–3:00 p.m.

C79 Emergency Neurology Topics: Status Epilepticus and Pediatric Neurology Emergencies

Topics: Neuro Trauma, Critical Care, and Sports Neurology; Child Neurology and Developmental Neurology; General Neurology

Director: Laurie Gutmann, MD, FAAN, Iowa City, IA

Program Description:

Assessment, recognition, and appropriate treatment of neurologic emergencies are issues faced in the emergency room, outpatient, and inpatient settings. These situations require a high level of clinical suspicion, as well as rapid and effective diagnostic and therapeutic plans of action, in order to attempt to prevent neurologic injury, suffering, or death. In Part one of this course, faculty will discuss status epilepticus and pediatric neurological emergencies.

This program complements C92: Emergency Neurology Topics: Acute/Subacute Weakness and Subarachnoid Hemorrhage, but covers independent topics.

Upon Completion:

Participants should have an updated approach to immediate investigation, diagnosis, and management of patients with status epilepticus; a better understanding of the mechanisms underlying status; and a better ability to recognize and initiate the management of pediatric neurological emergencies.

Lecture/Faculty:

- ▶ **Status Epilepticus: Mechanisms and Treatments**
Jaideep Kapur, MD, PhD, Charlottesville, VA
- ▶ **Pediatric Neurologic Emergencies**
Ann H. Tilton, MD, FAAN, New Orleans, LA

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Sunday, April 17, 2016

3:30 p.m.–5:30 p.m.

C92 Emergency Neurology Topics: Acute/Subacute Weakness and Subarachnoid Hemorrhage

Topics: Neuro Trauma, Critical Care, and Sports Neurology; General Neurology

Director: Laurie Gutmann, MD, FAAN, Iowa City, IA

Program Description:

Assessment, recognition, and appropriate treatment of neurologic emergencies are issues faced in the emergency room, outpatient, and inpatient settings. These situations require a high level of clinical suspicion, as well as rapid and effective diagnostic and therapeutic

Course Descriptions

Neuro Trauma, Critical Care, and Sports Neurology

plans of action, in order to attempt to prevent neurologic injury, suffering, or death. In Part two of this course, faculty will discuss subacute/acute weakness and subarachnoid hemorrhage.

This program complements C79: Emergency Neurology Topics: Status Epilepticus and Pediatric Neurology Emergencies, but covers independent topics.

Upon Completion:

Participants should have an updated approach to the immediate investigation, diagnosis, and management of patients presenting with acute or subacute muscle weakness and with acute presentation of subarachnoid hemorrhage.

Lecture/Faculty:

- ▶ **Acute and Subacute Weakness**
Laurie Gutmann, MD, FAAN, Iowa City, IA
- ▶ **Subarachnoid Hemorrhage**
Jose I. Suarez, MD, Cleveland, TX

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Monday, April 18, 2016 6:30 a.m.–8:30 a.m.

C97 Severe TBI: From ICU to Rehabilitation

Topics: Neuro-rehabilitation;
Aging, Dementia, Cognitive, and Behavioral Neurology;
Neuro Trauma, Critical Care, and Sports Neurology

Director: Holly E. Hinson, MD, Portland, OR

See complete course description on [page 108](#) »

Tuesday, April 19, 2016 6:30 a.m.–8:30 a.m.

C129 Neurologic Intensive Care I

Topic: Neuro Trauma, Critical Care, and Sports Neurology

Director: Alejandro A. Rabinstein, MD, FAAN, Rochester, MN

Program Description:

The care of the critically ill patient from brain disease, particularly if comatose, requires a detailed and organized knowledge of cerebral pathophysiology, semiology, and available techniques for diagnostic evaluation. Faculty will provide practical and updated information on the emergency evaluation and treatment of coma, management of intracranial hypertension, and rational use and integrative interpretation of brain monitoring modalities.

This program complements C138: Neurologic Intensive Care II and C153: Neurologic Intensive Care III, but covers independent topics.

Upon Completion:

Participants should be able to evaluate acutely comatose patient in an expeditious and organized manner, understand how to evaluate and manage intracranial hypertension, and decide the best way to use multimodality monitoring techniques.

Lecture/Faculty:

- ▶ **Evaluation and Management of Acute Coma**
David M. Greer, MD, FAAN, New Haven, CT
- ▶ **Pathophysiology and Treatment of Intracranial Hypertension**
William D. Freeman, MD, FAAN, Jacksonville, FL
- ▶ **Rational Use of Multimodality Brain Monitoring**
Jan Claassen, MD, PhD, New York, NY

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Nurses, Nurse Practitioners, Physician Assistants, Advanced Practice Providers

Tuesday, April 19, 2016 1:00 p.m.–3:00 p.m.

C138 Neurologic Intensive Care II

Topic: Neuro Trauma, Critical Care, and Sports Neurology

Director: Alejandro A. Rabinstein, MD, FAAN, Rochester, MN

Program Description:

Neurointensivists and neurologist caring for critically ill neurologic patients must have knowledge encompassing multiple disciplines and multiple major disease categories. In this program, experienced faculty will provide an up-to-date review of the management of severe traumatic brain injury with attention to evidence-based practices, refractory and super-refractory status epilepticus with emphasis on the rational use of anesthetics, and neuromuscular respiratory failure highlighting optimal evaluation and treatment strategies.

This program complements C129: Neurologic Intensive Care I and C153: Neurologic Intensive Care III, but covers independent topics.

Upon Completion:

Participants should be able to discuss the evidence-based management of severe traumatic brain injury, recognize the indication for initiation of anesthetics in patients with status epilepticus, identify the various causes of neuromuscular respiratory failure and the difference in optimal ventilation strategy, depending on the cause.

Lecture/Faculty:

- ▶ **Refractory and Super-refractory Status Epilepticus**
Sara E. Hocker, MD, Rochester, MN
- ▶ **Management of Severe Traumatic Brain Injury**
Kristine H. O'Phelan, MD, Miami, FL

▶ Evaluation and Management of Acute Neuromuscular Respiratory Failure

Elco F. M. Wijdicks, MD, FAAN, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Nurses, Advanced Practice Providers

Tuesday, April 19, 2016 1:00 p.m.–3:00 p.m.

C149 Sports Neurology: Non-concussion Overview I

Topic: Neuro Trauma, Critical Care, and Sports Neurology

Director: Brian W. Hainline, MD, FAAN, Indianapolis, IN

Program Description:

There is a growing hunger for and need of more in-depth discussion of both concussion and non-concussion sports neurology concerns, especially since the public is increasingly looking to the neurologist for sport injuries. This program will include in-depth discussion of cervical spine injury, headache, and peripheral nerve entrapment in sports. Faculty will explore the significance of emerging data regarding sport-related headache, the new consensus guidelines for cervical spine injury, and the in-depth biomechanical analysis of peripheral nerve injury in sport.

This program complements C165: Sports Neurology: Non-concussion Overview II, but covers independent topics.

Upon Completion:

Participants should be able to diagnose and manage cervical spine injuries in sports, diagnose and manage peripheral nerve entrapment injuries in sports, and diagnose and manage sport-related headache.

Lecture/Faculty:

- ▶ Managing Cervical Spine Injury in Sport
Kevin E. Crutchfield, MD, Baltimore, MD
- ▶ Managing Headache in Sport
Tad D. Seifert, MD, Louisville, KY
- ▶ Managing Peripheral Nerve Injury in Sport
Brian W. Hainline, MD, FAAN, Indianapolis, IN

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Tuesday, April 19, 2016 3:30 p.m.–5:30 p.m.

C153 Neurologic Intensive Care III

Topic: Neuro Trauma, Critical Care, and Sports Neurology

Director: Alejandro A. Rabinstein, MD, FAAN, Rochester, MN

Program Description:

Acute cerebrovascular disease is one of the most common and disabling neurologic emergencies and a frequent admission to the neurointensive care unit. Faculty will offer a fully updated and practical review on the management of severe ischemic strokes, intracerebral hemorrhage, and subarachnoid hemorrhage.

This program complements C129: Neurologic Intensive Care I and C138: Neurologic Intensive Care II, but covers independent topics.

Upon Completion:

Participants should be able to discuss the value of decompressive hemicraniectomy in patients with massive brain infarction, recognize the ideal blood pressure target for acute treatment of hypertension in patients with acute intracerebral hemorrhage, and identify the best strategies for the diagnosis and management of vasospasm after subarachnoid hemorrhage.

Lecture/Faculty:

- ▶ Acute and ICU Management of Severe Ischemic Stroke
Wade S. Smith, MD, PhD, San Francisco, CA
- ▶ Intensive Care Management of Intracerebral Hemorrhage
Jennifer A. Frontera, MD, Cleveland, OH
- ▶ Critical Care of SAH: State of the Art
Alejandro A. Rabinstein, MD, FAAN, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Nurses, Advanced Practice Providers

Tuesday, April 19, 2016 3:30 p.m.–5:30 p.m.

C165 Sports Neurology: Non-concussion Overview II

Topic: Neuro Trauma, Critical Care, and Sports Neurology

Director: Brian W. Hainline, MD, FAAN, Indianapolis, IN

Program Description:

There is a growing hunger for and need of more in-depth discussion of both concussion and non-concussion sports neurology concerns, especially since the public is looking more and more to the neurologist for sport injuries. This program will include in-depth discussion of low back injury, participation criteria for athletes with neurological conditions, and the neuropsychiatric benefits of sport and exercise. Faculty will explore the significance of emerging data

Course Descriptions

Neuro Trauma, Critical Care, and Sports Neurology

regarding low back injury and return-to-play criteria, and discuss the neuropsychiatric benefit of sport and exercise.

This program complements C149: Sports Neurology: Non-concussion Overview I, but covers independent topics.

Upon Completion:

Participants should be able to diagnose and manage lumbar spine injuries in sports, understand exercise physiology and its application to clinical neurology, and manage athletes with neurological conditions.

Lecture/Faculty:

- ▶ **Managing Low Back Injury in Sport**
Brian W. Hainline, MD, FAAN, Indianapolis, IN
- ▶ **Managing Athletes with Neurological Conditions**
Brian W. Hainline, MD, FAAN, Indianapolis, IN
- ▶ **Neuropsychiatric Benefit of Sport and Exercise**
Brian W. Hainline, MD, FAAN, Indianapolis, IN

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Wednesday, April 20, 2016 6:30 a.m.–8:30 a.m.

C166 Acute Neurological Emergencies

Topics: Neuro Trauma, Critical Care, and Sports Neurology;
Subspecialty in Focus

Director: Paul A. Nyquist, MD, MPH,
Baltimore, MD



Program Description:

Faculty will present an update on the examination of the comatose patient, providing a concise overview of the neurologic exam in understanding the cause of acute neurologic injury.

This program is offered in partnership with the Neurocritical Care Society and the Critical Care and Emergency Neurology Section.

Upon Completion:

Participants should be able to identify key components of the exam of the comatose patient and be familiar with recent updates in this process.

Lecture/Faculty:

- ▶ **Update: Approach to the Acutely Comatose Patient**
Hans A. Puttgen, MD, Baltimore, MD
- ▶ **Update: Management of Intracranial Pressure**
Hans A. Puttgen, MD, Baltimore, MD
- ▶ **Acute Management of Meningitis/Encephalitis**
Matthew B. Maas, MD, Chicago, IL

▶ Management of Acute Ischemic Stroke Large Vessel Occlusion

Paul A. Nyquist, MD, MPH, Baltimore, MD

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: General Neurologist

Wednesday, April 20, 2016 1:00 p.m.–3:00 p.m.

C179 Sports Concussion and Other Mild Concussive Injuries I

Topic: Neuro Trauma, Critical Care, and Sports Neurology

Director: David W. Dodick, MD, Phoenix, AZ

Program Description:

Advances in animal models of traumatic brain injury and imaging technology have elucidated the molecular and biochemical cascades involved in the pathophysiology of concussion, as well as the structural and biochemical signatures of concussion in humans. Advances in clinical, electrophysiological, and imaging biomarkers has improved the ability to objectively diagnose, prognosticate, and manage patients with concussive brain injuries.

This program complements C192: Sports Concussion and Other Mild Concussive Injuries II, but covers independent topics.

Upon Completion:

Participants should be able to discuss the molecular and biochemical cascades involved in the pathophysiology of concussion, describe the range of clinical, electrophysiological, imaging, and emerging serum biomarkers which enhance the clinician's ability to diagnose and manage patients with concussive brain injury.

Lecture/Faculty:

- ▶ **Biology of Concussion**
Mayumi Prins, Los Angeles, CA
- ▶ **Concussion Biomarkers**
David W. Dodick, MD, Phoenix, AZ
- ▶ **Clinical Evaluation of Concussion: Making Return-to-play and Return-to-learn Decisions**
Amaal J. Starling, MD, Phoenix, AZ

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Sports Medicine Physician, Advanced Practice Providers

Wednesday, April 20, 2016 3:30 p.m.–5:30 p.m.

C192 Sports Concussion and Other Mild Concussive Injuries II

Topic: Neuro Trauma, Critical Care, and Sports Neurology

Director: David W. Dodick, MD, Phoenix, AZ

Program Description:

Post-concussion syndrome affects up to 30 percent of those who experience concussion. The identification of those at risk, and recognition of the clinical features, will inform the management of those at risk and those who suffer. Chronic neurodegenerative diseases of the brain and spinal cord may occur after repeated concussions. The clinical features, risk factors, prevention, and management of these sequelae are important for practicing neurologists. Faculty will deliver presentations on the definition, clinical features, risk factors, and management of postconcussion syndrome; and discuss the neuropathology of repeated concussion in sports along with the emerging identification of risk factors and disease biomarkers.

This program complements C179: Sports Concussion and Other Mild Concussive Injuries I, but covers independent topics.

Upon Completion:

Participants should be able to define postconcussion syndrome and identify development risk factors and clinical features; describe the current concepts regarding the pathophysiology of postconcussion syndrome; implement a management approach to those who suffer with symptoms of postconcussion syndrome; describe the unique neuropathological basis for the neurodegenerative diseases of the brain and spinal cord occurring as a consequence of repeated concussions; describe the clinical features of chronic traumatic encephalopathy that distinguish it from other neuropsychiatric diseases; and identify emerging risk biomarkers and diagnostic studies that may help identify those at risk and those, premortem, who have the disease.

Lecture/Faculty:

- ▶ **Post-concussion Syndrome: Clinical Features and Management**
Christopher Giza, MD, Los Angeles, CA
- ▶ **Long-term Neurodegenerative Sequelae of Repetitive Brain Trauma**
Ann C. McKee, MD, Boston, MA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Visit the Exhibit Hall

Don't forget to stop by the Exhibit Hall to network and preview the latest products and services available in the neurologic industry.

Thursday, April 21, 2016 6:30 a.m.–8:30 a.m.

C211 Emergency Room Neuro-ophthalmology

Topics: Neuro-ophthalmology/Neuro-otology;
Neuro Trauma, Critical Care, and Sports Neurology

Director: Heather Moss, MD, PhD, Chicago, IL

See complete course description on page 106 »

Thursday, April 21, 2016 1:00 p.m.–3:00 p.m.

C222 Critical Care EEG Monitoring

Topics: Epilepsy/Clinical Neurophysiology (EEG);
Neuro Trauma, Critical Care, and Sports Neurology

Director: Aatif M. Husain, MD, Durham, NC

See complete course description on page 52 »

Neuromuscular and Clinical Neurophysiology (EMG)

Saturday, April 16, 2016 6:30 a.m.–8:30 a.m.

C19 Peripheral Neuropathy I

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Michael E. Shy, MD, Iowa City, IA

Program Description:

Peripheral neuropathies (PN) ultimately affect almost 10% of the population. New diagnostic and management options make rational therapies for PN increasingly possible. However, 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. The Peripheral Nerve Society (PNS) and Neuromuscular Section of the AAN will present three two-hour courses devoted to the diagnosis and management of these disorders. Faculty will provide an overview of the peripheral nervous system, including a pathological overview of PN, and review the diagnosis and management of acquired immune based neuropathies, including Guillain Barre Syndrome and CIDP.

This program complements C33: Peripheral Neuropathy II and C45: Peripheral Neuropathy III, but covers independent topics.

Upon Completion:

Participants should be able to understand the anatomical basis and pathological consequences of peripheral neuropathies; distinguish between acquired and inherited peripheral neuropathies; and use a rational, evidence-based approach to treat acquired immunologically based peripheral neuropathies.

Course Descriptions

Neuromuscular and Clinical Neurophysiology (EMG)

Lecture/Faculty:

- ▶ **Anatomical Underpinnings and Pathogenic Basis for Peripheral Neuropathies**
Steven Scherer, MD, Philadelphia, PA
- ▶ **Acquired Immune-based Neuropathies**
Richard A. Lewis, MD, FAAN, Los Angeles, CA
- ▶ **Questions and Answers/Case Presentations**
Richard A. Lewis, MD, FAAN, Los Angeles, CA
Steven Scherer, MD, Philadelphia, PA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Saturday, April 16, 2016 1:00 p.m.–3:00 p.m.

C33 Peripheral Neuropathy II

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Michael E. Shy, MD, Iowa City, IA

Program Description:

Peripheral neuropathies (PN) ultimately affect almost 10% of the population. New diagnostic and management options make rational therapies for PN increasingly possible. However, 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. The Peripheral Nerve Society (PNS) and Neuromuscular Section of the AAN will present three two-hour courses devoted to the diagnosis and management of these disorders. Faculty will review approaches and management issues for patients with inherited neuropathies, as well as approaches and management issues for the various forms of diabetic neuropathy.

This program complements C19: Peripheral Neuropathy I and C45: Peripheral Neuropathy III, but covers independent topics.

Upon Completion:

Participants should be able to determine whether a neuropathy is likely to be genetically based; identify the likely genetic causes of a genetic neuropathy; become familiar with current and future management approaches in different genetic causes of inherited neuropathy; identify the distinct forms of diabetic neuropathy; determine whether a neuropathy is likely to be related to diabetes; and obtain a rational, evidence-based approach to treating diabetic neuropathies.

Lecture/Faculty:

- ▶ **Diabetic Neuropathies**
A. Gordon Smith, MD, FAAN, Salt Lake City, UT
- ▶ **Inherited Neuropathies**
Michael E. Shy, MD, Iowa City, IA
- ▶ **Questions and Answers/Case Presentations**
Michael E. Shy, MD, Iowa City, IA
A. Gordon Smith, MD, FAAN, Salt Lake City, UT

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic, Interactive, Audience Participation, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Saturday, April 16, 2016 3:30 p.m.–5:30 p.m.

C45 Peripheral Neuropathy III

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Michael E. Shy, MD, Iowa City, IA

Program Description:

Next generation sequencing testing is making a genetic diagnosis increasingly available and affordable for patients with inherited neuropathies. However, it is increasingly confusing and complex in deciding what genetic testing to perform and how to interpret the results. The Peripheral Nerve Society (PNS) and Neuromuscular Section of the AAN will present this two-hour course to address these issues. Expert faculty with extensive experience in ordering and interpreting genetic testing for CMT will review strategies for ordering and interpreting test results, as well as discuss the current state and future of next generation testing for patients with inherited neuropathies and related disorders.

This program complements C19: Peripheral Neuropathy I and C33: Peripheral Neuropathy II, but covers independent topics.

Upon Completion:

Participants should be able to determine when to consider ordering genetic testing for patients with neuropathy; determine when testing is positive or negative and have an approach of what to do when results are inconclusive; and understand the different forms of next generation sequencing and the strengths and weaknesses of these forms.

Lecture/Faculty:

- ▶ **Interpreting Genetic Testing Results in Patients with Inherited Neuropathies**
Shawna Feely, MS, CGC, Iowa City, IA
- ▶ **Interpretation and Usage of Next Generation Sequencing: The Future**
Faculty

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Interactive, Audience Participation, Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Saturday, April 16, 2016 6:30 p.m.–9:30 p.m.

C55 Case Studies: Unusual Diagnostic and Management of Cases in Neuromuscular Disease

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Anne M. Connolly, MD, St. Louis, MO

Program Description:

The practice of neuromuscular medicine has been impacted by recent advances in immunology, molecular biology, and genetics. Through the presentation of both common disorders with unusual diagnostic or management issues, as well as rarer and more challenging cases, faculty will facilitate a discussion of diagnosis, laboratory workup, and treatment of a wide array of neuromuscular conditions. Each case will include an overview and an update on the particular clinical entity, including evolving concepts and approaches to therapy.

Upon Completion:

Participants should be familiar with the differential diagnosis, evaluation, treatment, and management of common and uncommon neuromuscular disorders, and gain an enhanced awareness of rare or unusual neuromuscular phenotypes.

Lecture/Faculty:

- ▶ **Neuromuscular Case Studies**
 Muhammad Al-Lozi, MD, St. Louis, MO
 Anne M. Connolly, MD, St. Louis, MO
 P. James B. Dyck, MD, FAAN, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Interactive, Audience Participation

CME Credits: 3.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Sunday, April 17, 2016 6:30 a.m.–8:30 a.m.

C67 Therapy of Neuromuscular Disease

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Michael D. Weiss, MD, FAAN, Seattle, WA

Program Description:

Many neuromuscular diseases are immune-mediated and are treatable and potentially curable. Regrettably, diseases like amyotrophic lateral sclerosis (ALS) are not, but even patients with ALS can see substantial improvements in quality of life and survival with proper therapy. Faculty will provide up-to-date and concise guidelines for the management of ALS, inflammatory neuropathies and myopathies, and myasthenia gravis.

Upon Completion:

Participants should be familiar with the current management of ALS, inflammatory neuropathies and myopathies, and myasthenia gravis.

Lecture/Faculty:

- ▶ **Treatment of Amyotrophic Lateral Sclerosis**
 Michael D. Weiss, MD, FAAN, Seattle, WA
- ▶ **Treatment of Inflammatory Neuropathies**
 Michael D. Weiss, MD, FAAN, Seattle, WA
- ▶ **Treatment of Myasthenia Gravis**
 Anthony A. Amato, MD, FAAN, Boston, MA
- ▶ **Treatment of Inflammatory Myopathies**
 Anthony A. Amato, MD, FAAN, Boston, MA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Sunday, April 17, 2016 1:00 p.m.–3:00 p.m.

C78 Evaluation and Management of Autonomic Disorders I

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Paola Sandroni, MD, PhD, FAAN, Rochester, MN

Program Description:

Availability of noninvasive autonomic testing is expanding neurologic practice into the diagnosis and management of disorders of the autonomic nervous system. Faculty will provide an overview of practical clinical approaches to some common autonomic syndromes such as orthostatic hypotension and orthostatic intolerance

This program complements C91: Evaluation and Management of Autonomic Disorders II, but covers independent topics.

Upon Completion:

Participants should be able to enhance their ability to formulate a differential diagnosis, organize a work-up, and offer a treatment plan for patients with common varieties of autonomic dysfunction.

Lecture/Faculty:

- ▶ **Introduction to Autonomic Testing**
 Paola Sandroni, MD, PhD, FAAN, Rochester, MN
- ▶ **Structural Autonomic Disorders**
 Thomas C. Chelmsky, MD, FAAN, Milwaukee, WI
- ▶ **Functional Autonomic Disorders**
 Paola Sandroni, MD, PhD, FAAN, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic, Audience Participation, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Course Descriptions

Neuromuscular and Clinical Neurophysiology (EMG)

Sunday, April 17, 2016

3:30 p.m.–5:30 p.m.

C91 Evaluation and Management of Autonomic Disorders II

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Paola Sandroni, MD, PhD, FAAN, Rochester, MN

Program Description:

Faculty will provide an overview of practical clinical approaches to autonomic neuropathies and disorders of sweating. Emphasis will be on patient care, highlighting ways in which the neurologist can provide useful consultations and effectively manage patients with autonomic disorders.

This program complements C78: Evaluation and Management of Autonomic Disorders I, but covers independent topics.

Upon Completion:

Participants should be able to enhance their ability to formulate a differential diagnosis, organize a work-up, and offer a treatment plan for patients with common varieties of autonomic dysfunction.

Lecture/Faculty:

- ▶ Disorders of Thermoregulation
William P. Cheshire, Jr., MD, FAAN, Jacksonville, FL
- ▶ Autonomic Peripheral Neuropathies
Roy L. Freeman, MD, Boston, MA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Monday, April 18, 2016

1:00 p.m.–3:00 p.m.

C104 Clinical Approach to Muscle Disease I

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Andrew Mammen, MD, PhD, Baltimore, MD

Program Description:

Faculty will discuss the clinical and laboratory approach to patients with myopathies.

This program complements C117: Clinical Approach to Muscle Disease II, but covers independent topics.

Upon Completion:

Participants should be familiar with the differential diagnoses and how to evaluate and treat patients with different myopathies.

Lecture/Faculty:

- ▶ Approach to Patients with Myopathy: A Pattern Recognition Approach
Carlayne E. Jackson, MD, FAAN, San Antonio, TX

- ▶ Myotonic Disorders: Myotonic Dystrophies and Non-Dystrophic Myotonias
Giovanni Meola, MD, FAAN, Milan, Italy

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic, Audience Participation, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Monday, April 18, 2016

3:30 p.m.–5:30 p.m.

C117 Clinical Approach to Muscle Disease II

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Andrew Mammen, MD, PhD, Baltimore, MD

Program Description:

Faculty will discuss the clinical and laboratory approach to patients with myopathies.

This program complements C104: Clinical Approach to Muscle Disease I, but covers independent topics.

Upon Completion:

Participants should be familiar with the differential diagnoses and how to evaluate and treat patients with different myopathies.

Lecture/Faculty:

- ▶ Inclusion Body Myositis: Advances in Diagnosis, Treatment, and Pathogenesis
Thomas E. Lloyd, MD, PhD, Baltimore, MD
- ▶ Rhabdomyolysis: A Practical Approach to the Diagnostic Evaluation
Andrew Mammen, MD, PhD, Baltimore, MD

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Tuesday, April 19, 2016

1:00 p.m.–3:00 p.m.

C143 Small Fiber Neuropathies: Sensory, Autonomic and Both I

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Christopher H. Gibbons, MD, FAAN, Boston, MA

Program 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. Part one will focus more heavily on conditions that impact the autonomic nervous system; Part

two will focus more heavily on conditions that impact the somatic or sensory nervous system. Both parts will discuss conditions that may impact the sensory and autonomic small fibers simultaneously.

This program complements C157: Small Fiber Neuropathies: Sensory, Autonomic, and Both II, but covers independent topics.

Upon Completion:

Participants should become familiar with the pathophysiology, semiology, differential diagnosis, diagnostic approaches (including skin biopsy and autonomic testing), laboratory evaluation, and treatment of small fiber somatic and autonomic neuropathies.

Lecture/Faculty:

- ▶ Small Fiber Autonomic Neuropathies
Roy L. Freeman, MD, Boston, MA
- ▶ Treatment of Autonomic Dysfunction
Horacio C. Kaufmann, MD, FAAN, New York, NY

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: General Neurologist, Specialist Neurologist

Tuesday, April 19, 2016 1:00 p.m.–5:30 p.m.

C151 EMG Skills Workshop: Basic (registration required)

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Ezgi Tiriyaki, MD, Minneapolis, MN

Program Description:

The program consists of four one-hour sessions covering: motor nerve conduction studies; sensory nerve conduction studies; nerve conduction techniques such as repetitive nerve stimulation, F waves, and H reflexes; and needle EMG. In small, hands-on group sessions, faculty will first demonstrate and then supervise attendees performing these techniques. The presentations will also cover the clinical utility and technical pitfalls of these techniques. Attendees rotate through each of the sessions.

Upon Completion:

Participants should be familiar with basic electrodiagnostic skills for the evaluation of common neuromuscular problems. The course is designed for practicing neurologists who wish to update basic skills in these important techniques and residents in training who either are rotating or have rotated through the EMG lab in their training program.

Lecture/Faculty:

- ▶ Motor Nerve Conduction Studies
Jun Kimura, MD, FAAN, Iowa City, IA
- ▶ Sensory Nerve Conduction Studies
Holli A. Horak, MD, FAAN, Tucson, AZ
- ▶ Repetitive Stimulation and Late Responses
Mark A. Ross, MD, FAAN, Scottsdale, AZ

▶ Needle EMG

James M. Gilchrist, MD, FAAN, Boston, IL

Core Competencies: Interpersonal and Communication Skills, Practice-Based Learning and Improvement

Teaching Style: Interactive

CME Credits: 4.25

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Tuesday, April 19, 2016 3:30 p.m.–5:30 p.m.

C157 Small Fiber Neuropathies: Sensory, Autonomic, and Both II

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Christopher H. Gibbons, MD, FAAN, Boston, MA

Program 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. Part one will focus more heavily on conditions that impact the autonomic nervous system; Part two will focus more heavily on conditions that impact the somatic or sensory nervous system. Both parts will discuss conditions that may impact the sensory and autonomic small fibers simultaneously.

This program complements C143: Small Fiber Neuropathies: Sensory, Autonomic and Both I, but covers independent topics.

Upon Completion:

Participants should become familiar with the pathophysiology, semiology, differential diagnosis, diagnostic approaches (including skin biopsy and autonomic testing), laboratory evaluation, and treatment of small fiber somatic and autonomic neuropathies.

Lecture/Faculty:

- ▶ Treatment of Painful Neuropathy
Misha-Miroslav Backonja, MD, Madison, WI
- ▶ Small Fiber Sensory Neuropathies
Christopher H. Gibbons, MD, FAAN, Boston, MA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: General Neurologist, Specialist Neurologist

New Dates: Friday through Thursday

While previous Annual Meetings have traditionally run Saturday through Saturday, the 2016 meeting will begin on a Friday and end on a Thursday. This new, condensed timeframe creates opportunities for some exciting changes while still allowing you to completely customize your schedule to your interests and needs.

Course Descriptions

Neuromuscular and Clinical Neurophysiology (EMG)

Wednesday, April 20, 2016 6:30 a.m.–8:30 a.m.

C174 Clinical EMG I

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Ruple S. Laughlin, MD, Rochester, MN

Program Description:

Accurate electrodiagnostic testing and interpretation is based on a solid understanding of functional nerve and muscle anatomy, physiology, and pathophysiology in addition to technical considerations. This course is the first in a three-part series of complimentary courses aimed at enhancing the understanding and application of EMG to clinical practice. Clinical EMG I serves as the foundation for understanding the basics of nerve conduction studies and needle electromyography. Technical factors, pitfalls, and clues to pathophysiology will be highlighted throughout the course. The basic concepts in Clinical EMG I will serve as a foundation for advanced techniques and applications in clinical situations presented in Clinical EMG II and III.

This program complements C183: Clinical EMG II and C198: Clinical EMG III, but covers independent topics.

Upon Completion:

Participants should be able to have a basic understanding into the origins and acquisition of compound muscle and sensory nerve action potentials and late responses, as well as how to use patterns of firing to assist in spontaneous and voluntary waveform recognition and interpretation.

Lecture/Faculty:

- ▶ **Nerve Conduction Studies: Origins, Acquisition, and Implications**
Ruple S. Laughlin, MD, Rochester, MN
- ▶ **Needle Electromyography: Practice, Patterns and Pitfalls**
Devon I. Rubin, MD, FAAN, Jacksonville, FL

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Wednesday, April 20, 2016 1:00 p.m.–3:00 p.m.

C183 Clinical EMG II

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Mark B. Bromberg, MD, PhD, FAAN, Salt Lake City, UT

Program Description:

Electrodiagnostic testing is important in diagnosing disorders of the peripheral nervous system. Clinical EMG I provides a foundation for performing basic nerve conduction studies and needle EMG. Clinical EMG II discusses the principles and pitfalls of quantitative techniques to aid in the diagnosis of defects in neuromuscular junction transmission, nerve disorders and muscle disorders. Participants will

become versed in the principles and practice of motor unit analysis, analysis of turns and amplitude, motor unit number estimation and MUNIX, repetitive nerve stimulation and measurements of neuromuscular jitter, and their application.

This program complements C174: Clinical EMG I and C198: Clinical EMG III, but covers independent topics.

Upon Completion:

Participants should be able to understand the principles and pitfalls of quantitative EMG techniques and how they can be used to diagnose defects in neuromuscular junction transmissions and denervating diseases.

Lecture/Faculty:

- ▶ **Clinical EMG II**
Mark B. Bromberg, MD, PhD, FAAN, Salt Lake City, UT
Vern C. Juel, MD, FAAN, Durham, NC

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Wednesday, April 20, 2016 1:00 p.m.–5:30 p.m.

C189 \$ Neuromuscular Bedside Rounds Skills Workshop (registration required)

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Michelle L. Mauermann, MD, Rochester, MN

Program Description:

Advances in molecular genetics have greatly impacted the practice of neuromuscular medicine and often the importance of bedside skills in neuromuscular diagnosis is underappreciated. However, the ability to synthesize a patient's history and neurological examination findings with laboratory data, electrophysiology, and pathology is essential for accurate diagnosis and management. Faculty will lead "bedside" rounds on patients with a spectrum of neuromuscular disorders using videos and photographs of real patients. Small groups will go through the diagnostic process under the guidance of each faculty facilitator, who will emphasize clinical pearls in the history, examination, and diagnostic evaluation.

Upon Completion:

Participants should become familiar with a number of clinical pearls, develop a diagnostic approach to patients with common and uncommon neuromuscular diseases, and get an update on management of these conditions.

Lecture/Faculty:

- ▶ **Peripheral Neuropathy**
Michelle L. Mauermann, MD, Rochester, MN
- ▶ **Neuromuscular Junction**
Jeff Guptill, MD, Durham, NC

- ▶ **Motor Neuron Disease**
Ruple S. Laughlin, MD, Rochester, MN
- ▶ **Muscle Disease**
Aziz I. Shaibani, MD, FAAN, Houston, TX

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Interactive, Audience Participation

CME Credits: 4.25

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Wednesday, April 20, 2016 3:30 p.m.–5:30 p.m.

C198 Clinical EMG III

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Mark B. Bromberg, MD, PhD, FAAN, Salt Lake City, UT

Program Description:

Clinical EMG III is an extension of Clinical EMG II, and focuses on challenges in interpreting nerve conduction and needle EMG data. Participants will understand how to distinguish amongst different types of neuropathy, and apply nerve conduction criteria for acute and chronic forms of immune-mediated neuropathies. It will review the use of needle EMG in the diagnosis of amyotrophic lateral sclerosis (ALS), and how to apply World Federation of Neurology criteria. Clinical EMG III will review how the diagnosis of primary muscle disorders is aided by needle EMG to identify subtle abnormalities.

This program complements C174: Clinical EMG I and C183: Clinical EMG II, but covers independent topics.

Upon Completion:

Participants should be able to understand how to apply electrodiagnostic criteria to aid in the diagnosis of immune-mediated neuropathies and amyotrophic lateral sclerosis.

Lecture/Faculty:

- ▶ **Clinical EMG III**
Mark B. Bromberg, MD, PhD, FAAN, Salt Lake City, UT
Laurie Gutmann, MD, FAAN, Iowa City, IA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

New Experiential Learning

Everyone has a different learning style, and the state-of-the-art Vancouver Convention Centre—host to major events such as the 2010 Olympics and acclaimed TED conference—will allow us to deliver innovative and exciting content like never before with dynamic and interactive learning areas available all week long.

Thursday, April 21, 2016 1:00 p.m.–3:00 p.m.

C217 Neuromuscular Junction Disorders I

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Laura M. Tormoehlen, MD, Indianapolis, IN

Program Description:

Faculty will provide current perspectives on the diagnosis, pathogenesis, and care of patients with myasthenia gravis, ocular and MuSK myasthenia. Case presentations will demonstrate a practical approach to identification, evaluation, and management of common and more challenging patients in the clinical setting.

This program complements C228: Neuromuscular Junction Disorders II, but covers independent topics.

Upon Completion:

Participants should be familiar with the diagnosis and management of patients with myasthenia gravis and related disorders; learn to critically select therapies; and be able to distinguish myasthenia gravis, MuSK myasthenia, Lambert-Eaton syndrome, and recognize the less common disorders of neuromuscular transmission.

Lecture/Faculty:

- ▶ **Presentation and Diagnosis of Myasthenia Gravis**
Janice M. Massey, MD, FAAN, Durham, NC
- ▶ **Treating Myasthenia Gravis in 2016**
Faculty

Core Competency: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Thursday, April 21, 2016 1:00 p.m.–5:30 p.m.

C223 \$ Neuromuscular Ultrasound Skills Workshop (registration required)

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Lisa Hobson-Webb, MD, Durham, NC

Program Description:

This skills workshop will introduce participants to the field of neuromuscular ultrasound (NMUS) and cover the basic principles of ultrasonography and current applications. NMUS techniques will be presented through both video and live demonstration sessions. Participants will also have the opportunity to gain limited hands-on experience with ultrasound systems under the guidance of a faculty member. Specific information will be presented on the role of NMUS in the diagnosis and management of entrapment neuropathies, and its use in guided procedures and in the diagnosis of muscular disorders.

Course Descriptions

Neuromuscular and Clinical Neurophysiology (EMG)

Upon Completion:

Participants should be able to understand the basic principles of neuromuscular ultrasonography, including its advantages and limitations, and the role of ultrasound in the diagnosis of entrapment neuropathies; become familiar with the techniques required to use ultrasound in the guidance of neuromuscular procedures, and the methods required to use muscle ultrasound; and learn to integrate electrodiagnostic and sonographic information through case presentations.

Lecture/Faculty:

- **Orientation and Introduction to Neuromuscular Ultrasound**
Lisa Hobson-Webb, MD, Durham, NC
- **Breakout Sessions 1–4**
Lisa Hobson-Webb, MD, Durham, NC
Jeffrey Strommen, MD, Rochester, MN
Craig M. Zaidman, MD, St. Louis, MO
Amanda C. Guidon, MD, Boston, MA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 4.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Thursday, April 21, 2016 3:30 p.m.–5:30 p.m.

C228 Neuromuscular Junction Disorders II

Topic: Neuromuscular and Clinical Neurophysiology (EMG)

Director: Laura M. Tormoehlen, MD, Indianapolis, IN

Program Description:

Faculty will provide current perspectives on the diagnosis, pathogenesis, and care of patients with Lambert-Eaton and congenital myasthenic syndromes, as well as toxin-induced NMJ disorders. Case presentations will demonstrate a practical approach to identification, evaluation, and management of common and more challenging patients in the clinical setting.

This program complements C217: Neuromuscular Junction Disorders I, but covers independent topics.

Upon Completion:

Participants should be familiar with the diagnosis and management of patients with less common NMJ disorders; learn to critically select therapies; and be able to distinguish myasthenia gravis, MuSK myasthenia, and Lambert-Eaton syndrome, and recognize the less common disorders of neuromuscular transmission.

Lecture/Faculty:

- **Toxins and Disorders of Neuromuscular Transmission**
Laura M. Tormoehlen, MD, Indianapolis, IN

- **Lambert-Eaton Syndrome and the Less Common Disorders of Neuromuscular Transmission**
Faculty

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Neuro-oncology

Saturday, April 16, 2016 6:30 a.m.–8:30 a.m.

C20 The Palliative Care Guide in Neurology: What You Must Know About Neuro-oncology

Topics: Neuro-oncology;
Pain and Palliative Care

Director: Tobias Walbert, MD, PhD, Detroit, MI

Program Description:

This program is intended to teach neurologists the broad principles of palliative care, with a focus on how to apply those principles in the practice, especially when caring for brain tumor patients. Faculty will cover an introduction to the history and goals of palliative care, distinction of palliative care from hospice care, communicating with the patient and the patient's family (how to disclose bad news and how to provide honest, yet compassionate, information), understanding the concept of quality of life, and fostering trust and avoiding perceptions by the patient of abandonment. While the principles will focus on neuro-oncology patients, they will also be explained in a way that may be applied to other patients with life limiting disorders. Special attention will be given to practical decision making and symptom management.

Upon Completion:

Participants should be able to communicate a serious diagnosis to a patient in an honest yet compassionate manner, identify the key components of palliative care and hospice, discuss end-of-life issues with patients and assist them in developing advance directives, and manage the palliative care needs of a patient with brain tumors.

Lecture/Faculty:

- **Palliative Care and Neurology: Why Does it Matter, How Does it Affect Our Patients and Their Families, and Why Should We Care?**
Tobias Walbert, MD, PhD, Detroit, MI
- **Know How: Symptom Management and Communication Skills for the Neurologist**
Alan C. Carver, MD, New York, NY
- **Case Discussion & Questions and Answers**
Tobias Walbert, MD, PhD, Detroit, MI

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism

Teaching Style: Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Saturday, April 16, 2016 1:00 p.m.–3:00 p.m.

C34 Case Studies: Neurologic Consultations in Cancer Patients I

Topic: Neuro-oncology

Director: Amy A. Pruitt, MD, Philadelphia, PA

Program Description:

Neurologists are often called upon to weigh in on management issues related to patients with brain tumors or systemic cancer. They must recognize syndromes that predate cancer diagnosis, complications of therapy, and sequelae such as cerebrovascular disease, secondary neoplasms, and cognitive problems. The program will be divided into two didactic sessions on medical complications of brain tumors and complications involving stem cell and solid organ transplantation. Participants will then be included in a "mock tumor board" to discuss case-based common issues arising in cancer neurologic consultations.

This program complements C46: Case Studies: Neurologic Consultations in Cancer Patients II, but covers independent topics.

Upon Completion:

Participants should be able to understand evidence base for treatment of seizures, venous thromboembolism, and infections in vulnerable cancer populations; recognize less common syndromes such as CLIPPERS and central neurogenic hyperventilation and MRI abnormalities that suggest lymphoma; understand the evidence on which the increasing use of memantine during cranial radiation is based; recognize complications of cytotoxic therapies such as methotrexate and ifosfamide; understand the evidence for the entity of chemobrain and be able to recognize SMART syndrome; and have a sense of the types of ongoing neurologic surveillance appropriate for long-term cancer survivors.

Lecture/Faculty:

- ▶ **Medical Management of Brain Tumor Patients**
Patrick Y. Wen, MD, FAAN, Boston, MA
- ▶ **Complications of Hematopoietic Stem Cell and Solid Organ Transplantation**
Amy A. Pruitt, MD, Philadelphia, PA
- ▶ **Tumor Board: CNS Infections, Chemotherapy Complications, Primary CNS Lymphoma, and Problems of Long-term Survivors**
Faculty

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Audience Participation, Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Saturday, April 16, 2016 3:30 p.m.–5:30 p.m.

C46 Case Studies: Neurologic Consultations in Cancer Patients II

Topic: Neuro-oncology

Director: Patrick Y. Wen, MD, FAAN, Boston, MA

Program Description:

As therapies for cancer improve and patients survive longer, an increasing number are developing complications of the nervous system. These neurologic complications may result either from direct metastatic effects of the cancer itself, as a consequence of increasing number of novel targeted molecular therapies and immunotherapies, or as a result of paraneoplastic syndromes. Neurologists are increasingly consulted on these problems and are critical in accurately diagnosing these complications and directing treatment appropriately. This program complements Neurologic Consultations in Cancer Patients I and uses cases to illustrate diagnosis and management of metastatic complications of cancer in the nervous system; neurologic complications of novel cancer therapies; and paraneoplastic neurologic complications of cancer.

This program complements C34: Case Studies: Neurologic Consultations in Cancer Patients I, but covers independent topics.

Upon Completion:

Participants should be able to recognize and diagnose metastatic complications of cancer and determine the optimal treatment of neurologic complications in these patients; recognize, diagnose, and treat neurologic complications of novel cancer therapies; and recognize, diagnose, and treat paraneoplastic neurologic complications of the nervous system

Lecture/Faculty:

- ▶ **Metastatic Complications of Cancer in the Nervous System**
David Schiff, MD, FAAN, Charlottesville, VA
- ▶ **Neurologic Complications of Novel Cancer Therapies**
Patrick Y. Wen, MD, FAAN, Boston, MA
- ▶ **Paraneoplastic Complications of the Nervous System**
Josep O. Dalmau, MD, PhD, Barcelona, Spain
- ▶ **Case Studies in Metastatic Cancer**
Amy A. Pruitt, MD, Philadelphia, PA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Advanced Practice Providers

Monday, April 18, 2016

6:30 a.m.–8:30 a.m.

C102 Neuro-oncologic Emergencies

Topic: Neuro-oncology

Director: Nimish A. Mohile, MD, Rochester, NY

Program Description:

Neuro-oncology encompasses several emergent conditions that require immediate recognition and therapeutic management in order to preserve and improve patient outcomes. Faculty will present cases involving the most common and critical neuro-oncologic emergencies and describe the optimal diagnostic approach, therapies, and prognosis.

Six clinical scenarios will be presented, each discussing clinical presentation, differential diagnosis, therapeutic management, and patient outcomes. Faculty will present cases of cancer patients who present with myelopathy, cauda equina syndrome, acute encephalopathy, increased intracranial pressure, stroke and new neurologic symptoms in bone marrow transplant patients. For each case, faculty will discuss a broad differential diagnosis with an emphasis on the most emergent conditions and treatments.

Upon Completion:

Participants should become familiar with evidence-based emergent management of metastatic epidural spinal cord compression, be familiar with identification and management of increased intracranial pressure in brain tumor patients, develop a differential diagnosis for acute mental status changes in a cancer patient, understand the possible differentials for new neurologic complications in bone marrow transplant patients, and understand the management of stroke in cancer patients.

Lecture/Faculty:

- ▶ **Metastatic Epidural Spinal Cord Compression**
Julie E. Hammack, MD, FAAN, Rochester, MN
- ▶ **Cauda Equina Syndromes**
Julie E. Hammack, MD, FAAN, Rochester, MN
- ▶ **Urgent Management of Acute Encephalopathy in Cancer Patients**
Nimish A. Mohile, MD, Rochester, NY
- ▶ **Neurologic Emergencies in Bone Marrow Transplant Patients**
Nimish A. Mohile, MD, Rochester, NY
- ▶ **Management of Increased Intracranial Pressure**
Julie E. Hammack, MD, FAAN, Rochester, MN
- ▶ **Stroke in Cancer Patients**
Nimish A. Mohile, MD, Rochester, NY

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic, Interactive, Audience Participation, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Advanced Practice Providers

Wednesday, April 20, 2016

1:00 p.m.–3:00 p.m.

C184 Navigating Primary Brain Tumors for the Neurologist I

Topic: Neuro-oncology

Director: Erin M. Dunbar, MD, Atlanta, GA

Program Description:

This course is high-yield for the initial boards and the MOC exams. This stand-alone course will efficiently offer a review of the modern approach to the multidisciplinary management of primary brain tumors, inclusive of common symptom management, the efficacy/drawbacks of modern modalities, potential neuro-oncology emergencies, scenarios for referral, and emerging treatments/technologies.

This program complements C199: Navigating Primary Brain Tumors for the Neurologist II, but covers independent topics.

Upon Completion:

Participants should be able to improve their skills, outcomes, and confidence in the management of these tumors with this high-impact review for those taking their initial boards and/or their maintenance of certification (MOC).

Lecture/Faculty:

- ▶ **Primary Brain Tumors: Incidences & Risk Factors, Including Genetic Predisposition Syndromes**
Marco A. Alegria Loyola, MD, Mexico City, Mexico
- ▶ **Modern Diagnostic Approach and Initial Symptom Management**
Erin M. Dunbar, MD, Atlanta, GA
- ▶ **Initial Treatment, Including Scenarios Requiring Urgent and Multi-disciplinary Management**
Faculty

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Wednesday, April 20, 2016

3:30 p.m.–5:30 p.m.

C199 Navigating Primary Brain Tumors for the Neurologist II

Topic: Neuro-oncology

Director: Erin M. Dunbar, MD, Atlanta, GA

Program Description:

This course is high-yield for the initial boards and the MOC exams. This stand-alone course will efficiently offer a review of the modern approach to the multidisciplinary management of primary brain tumors, inclusive of common symptom management, the

efficacy/drawbacks of modern modalities, potential neuro-oncology emergencies, scenarios for referral, and emerging treatments/technologies.

This program complements C184: Navigating Primary Brain Tumors for the Neurologist I, but covers independent topics.

Upon Completion:

Participants should be able to improve their skills, outcomes, and confidence in the management of these tumors with this high-impact review for those taking their initial boards and/or their maintenance of certification (MOC).

Lecture/Faculty:

- ▶ **Introducing the Framework: Presentations from the Perspectives of Meningioma and Glioma**
Erin M. Dunbar, MD, Atlanta, GA
- ▶ **Modern Surgical Approaches, Including Efficacy, Toxicity, and Emerging Roles from the Perspectives of Meningioma and Glioma**
Faculty
- ▶ **Modern Radiation Approaches, Including Efficacy, Toxicity, and Emerging Roles from the Perspectives of Meningioma and Glioma**
Faculty
- ▶ **Modern Chemotherapy Approaches, Including Efficacy, Toxicity, and Emerging Roles from the Perspectives of Meningioma and Glioma**
Erin M. Dunbar, MD, Atlanta, GA

Core Competency: Medical Knowledge, Patient Care, Practice-based Learning and Improvement

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Other Specialists, Advanced Practice Providers

Neuro-ophthalmology/Neuro-otology

Saturday, April 16, 2016 6:30 a.m.–8:30 a.m.

C28 Higher Cortical Visual Disorders: Case-based Review

Topics: Neuro-ophthalmology/Neuro-otology; Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Sashank Prasad, MD, Boston, MA

Program Description:

This course will review important neurologic disorders of higher visual processing. The diagnosis of these fascinating conditions can be challenging and is often delayed. In these patients, routine evaluations of visual function may not readily yield a diagnosis; it is important to conduct a refined examination of visual functions in order to correctly localize and identify the problem. After reviewing

the organization of visual processing networks in the brain, faculty will illustrate specific disorders by using videos that depict patients describing their symptoms followed by a focused examination highlighting their visual processing abnormalities. Topics covered will include Anton's syndrome, apperceptive visual agnosia, hemi-achromatopsia, alexia without agraphia, Riddoch syndrome, Balint syndrome, prosopagnosia, Charles Bonnet syndrome, and Lhermitte's peduncular hallucinosis. Discussion of the syndrome, its localization, and recent scientific insights from modern investigations of these disorders will follow each case.

Upon Completion:

Participants should be able to gain familiarity with the diagnosis, localization, management, and neuroscientific understanding of disorders of visual processing.

Lecture/Faculty:

- ▶ **Introduction to Cortical Visual Disorders**
Sashank Prasad, MD, Boston, MA
- ▶ **Anton's Syndrome**
Faculty
- ▶ **Visual Agnosia**
Faculty
- ▶ **Hemi-achromatopsia**
Faculty
- ▶ **Alexia Without Agraphia**
Faculty
- ▶ **Riddoch Syndrome**
Faculty
- ▶ **Balint Syndrome**
Faculty
- ▶ **Prosopagnosia**
Faculty
- ▶ **Charles Bonnet Syndrome**
Faculty
- ▶ **Lhermitte's Peduncular Hallucinosis**
Faculty

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Psychologist, Neuropsychologist, Psychiatrist, Advanced Practice Providers

New 2-Hour Education Course Format

Educational theory research suggests that learners pay attention and learn better in short amounts of time rather than in long sessions. That's why we've re-tooled this year's education program to offer most courses in 2-hour increments vs. the prior half-day and full-day course structure.

Course Descriptions

Neuro-ophthalmology/Neuro-otology

Saturday, April 16, 2016

1:00 p.m.–5:30 p.m.

C41 Neuro-ophthalmology and Neurovestibular Exam Lab Skills Workshop (registration required)

Topic: Neuro-ophthalmology/Neuro-otology

Director: John Pula, MD, Chicago, IL

Program Description:

This is a hands-on mini-lab to convey neuro-ophthalmology and neuro-otology examination skills. The lab consists of stations to address individual components of the exam, including visual acuity (near and Snellen acuity), color vision, fields (confrontation and Amsler grid including techniques to diagnose functional patients), pupils (RAPD and anisocoria), ocular alignment (prism cover, general prism use, red Maddox rod), assessment of pursuits and saccades, nystagmus examination (Frenzel lens), ophthalmoscopy, assessment of the vestibular ocular reflex (head thrust and ophthalmoscopy), Hallpike testing, and repositioning treatments. Participants will visit each station for individualized instruction and troubleshooting with an expert on these essential examination skills.

Upon Completion:

Participants should be able to understand the techniques used in performing the neuro-ophthalmic and neurovestibular exams, including afferent, pupil, efferent, and vestibular components.

Lecture/Faculty:

- ▶ Introduction to the NO-NO Examination
John Pula, MD, Chicago, IL
- ▶ Acuity and Color Vision (Near Acuity, Functional Vision Loss, Dyschromatopsia)
Eric R. Eggenberger, DO, FAAN, East Lansing, MI
John Pula, MD, Chicago, IL
- ▶ Neurovestibular Examination (VOR Gain and Suppression, DixHallpike Test, Canalith Repositioning Treatment)
Jorge C. Kattah, MD, FAAN, Peoria, IL
Kevin A. Kerber, MD, Ann Arbor, MI
- ▶ Ocular Motility (Alignment, Ductions, Prisms, Red-Maddox Rod)
Wayne T. Comblath, MD, FAAN, Ann Arbor, MI
- ▶ Ophthalmoscopy: An Important Skill for All Neurologists
Kathleen B. Digre, MD, FAAN, Salt Lake City, UT
- ▶ Pupil Examination (Anisocoria, RAPD)
Paul W. Brazis, MD, FAAN, Jacksonville, FL
- ▶ Slit Lamp Examination (Anterior Chamber, Retina, and 3D View of Optic Nerve)
Gregory P. Van Stavern, MD, St. Louis, MO
- ▶ Visual Field Testing (Amsler Grid, Functional Vision Loss)
Christopher Glisson, DO, Grand Rapids, MI

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Interactive

CME Credits: 4.25

Recommended Audience: Trainee, General Neurologist

Sunday, April 17, 2016

6:30 a.m.–8:30 a.m.

C69 Eye Movement Disorders: A Systematic Approach to the Evaluation of Diplopia

Topic: Neuro-ophthalmology/Neuro-otology

Director: Marc Dinkin, MD, New York, NY

Program Description:

Correct localization is the primary objective in the evaluation of diplopia. Faculty will present a systematic approach to localizing diplopia, with special emphasis on vertical diplopia and diagnostically challenging cases. Basic and advanced concepts will be included. Interactive video-based case examples presented as unknowns will facilitate audience discussion and immediate application of new skills to diagnose diplopia localizing to extraocular muscle, neuromuscular junction, cranial nerve, nuclear, and supranuclear locations. Topic discussions will include pearls, pitfalls, and pathognomonic signs in localization.

Upon Completion:

Participants should be able to localize diplopia, especially vertical diplopia, via basic and advanced examination skills and to recognize the wide range of clinical diagnoses of patients with diplopia via participation in evaluating diagnostically challenging case presentations.

Lecture/Faculty:

- ▶ The Diplopia Exam
Marc Dinkin, MD, New York, NY
- ▶ Supranuclear Causes of Diplopia
Janet C. Rucker, MD, New York, NY
- ▶ Cranial Neuropathies Causing Diplopia
Marc Dinkin, MD, New York, NY
- ▶ Neuromuscular Junction Disorders
Janet C. Rucker, MD, New York, NY
- ▶ Orbital Causes of Diplopia
Marc Dinkin, MD, New York, NY

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

New Single-Rate Registration

You asked, and we listened: One low price helps us further our mission of promoting the highest quality patient-centered neurologic care by allowing you to sample a wider variety of programs, or participate in a track of courses geared toward your subspecialty.

Sunday, April 17, 2016

1:00 p.m.–3:00 p.m.

C80 Now You See It, Now You Know It—Pathognomonic Neuro-ophthalmology Findings

Topic: Neuro-ophthalmology/Neuro-otology

Director: Wayne T. Cornblath, MD, FAAN, Ann Arbor, MI

Program Description:

This program consists of images and videos of pathognomonic neuro-ophthalmology examination features (i.e., opsoclonus, blepharospasm, Kayser-Fleischer rings) that are presented as an unknown with the audience using the audience response system to choose the correct diagnosis. This is followed by one or two slides of additional information and other examples of the condition. The format is designed to show the pathognomonic feature of a large number of different diseases so the attendee can quickly and accurately make the correct diagnosis.

Upon Completion:

Participants should be able to recognize neuro-ophthalmology findings that are encountered in general neurology practice and quickly arrive at the correct diagnosis.

Lecture/Faculty:

- ▶ Now You See It, Now You Know It—Pathognomonic Neuro-ophthalmology Findings
Wayne T. Cornblath, MD, FAAN, Ann Arbor, MI
Eric R. Eggenberger, DO, FAAN, East Lansing, MI

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Monday, April 18, 2016

6:30 a.m.–8:30 a.m.

C103 Idiopathic Intracranial Hypertension

Topic: Neuro-ophthalmology/Neuro-otology

Director: Michael Wall, MD, FAAN, Iowa City, IA

Program Description:

Idiopathic intracranial hypertension is a disorder of increased intracranial pressure of unknown cause. There are many pitfalls in diagnosis and management. Recent advances have substantially impacted how IIH patients are treated. Using a case-based and didactic approach, faculty will facilitate a discussion to discuss best practices, review the evidence base for treatment, fill practice gaps and convey new knowledge in the field. The program will be aimed at both trainees and general neurologists.

Upon Completion:

Participants should be able to recognize the major differentiating symptoms, know when and how to involve ophthalmologic consultation, correctly diagnose idiopathic intracranial hypertension,

know the proper evaluation using the current evidence base, and choose the appropriate medical or surgical treatment.

Lecture/Faculty:

- ▶ Idiopathic Intracranial Hypertension
Sashank Prasad, MD, Boston, MA
Michael Wall, MD, FAAN, Iowa City, IA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Tuesday, April 19, 2016

6:30 a.m.–8:30 a.m.

C130 Neuro-ophthalmology I

Topic: Neuro-ophthalmology/Neuro-otology

Director: Nancy J. Newman, MD, FAAN, Atlanta, GA

Program Description:

This is part one of a three-part comprehensive review of clinical neuro-ophthalmology designed to be a stand-alone course; however, attendees are strongly encouraged to attend all three parts. Numerous case presentations will be followed by related short reviews. Topics specifically addressed in part one include the differential diagnosis of visual loss, the examination of the ocular fundus, optic neuropathies and papilledema, 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 C139: Neuro-ophthalmology II and C154: Neuro-ophthalmology III, but covers independent topics.

Upon Completion:

Participants should become familiar with the diagnosis, evaluation, and treatment of common afferent neuro-ophthalmic problems.

Lecture/Faculty:

- ▶ Case 1
Valerie Biousse, MD, Atlanta, GA
- ▶ Visual Loss
Nancy J. Newman, MD, FAAN, Atlanta, GA
- ▶ Case 2
Valerie Biousse, MD, Atlanta, GA
- ▶ Optic Neuropathies
Nancy J. Newman, MD, FAAN, Atlanta, GA
- ▶ Case 3
Valerie Biousse, MD, Atlanta, GA
- ▶ Papilledema
Valerie Biousse, MD, Atlanta, GA
- ▶ Case 4
Valerie Biousse, MD, Atlanta, GA
- ▶ Case 5
Nancy J. Newman, MD, FAAN, Atlanta, GA

Course Descriptions

Neuro-ophthalmology/Neuro-otology

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Tuesday, April 19, 2016 1:00 p.m.–3:00 p.m.

C139 Neuro-ophthalmology II

Topic: Neuro-ophthalmology/Neuro-otology

Director: Nancy J. Newman, MD, FAAN, Atlanta, GA

Program Description:

This is part two of a three-part comprehensive review of clinical neuro-ophthalmology designed to be a stand-alone course; however, attendees are strongly encouraged to attend all three parts. Numerous case presentations will be followed by related short reviews. Topics specifically addressed in part two include assorted important neuro-ophthalmic topics such as optic neuritis, visual fields defects, anisocoria and third nerve palsy, 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 C130: Neuro-ophthalmology I and C154: Neuro-ophthalmology III, but covers independent topics.

Upon Completion:

Participants should become familiar with the diagnosis, evaluation, and treatment of common afferent and efferent neuro-ophthalmic problems.

Lecture/Faculty:

- ▶ **Case 1**
Nancy J. Newman, MD, FAAN, Atlanta, GA
- ▶ **Management of Optic Neuritis**
Steven Galetta, MD, FAAN, New York, NY
- ▶ **Case 2**
Nancy J. Newman, MD, FAAN, Atlanta, GA
- ▶ **Visual Fields**
Nancy J. Newman, MD, FAAN, Atlanta, GA
- ▶ **Case 3 and Discussion**
Valerie Biousse, MD, Atlanta, GA
- ▶ **Case 4**
Valerie Biousse, MD, Atlanta, GA
- ▶ **Anisocoria**
Steven Galetta, MD, FAAN, New York, NY
- ▶ **Case 5**
Valerie Biousse, MD, Atlanta, GA
- ▶ **Case 6**
Nancy J. Newman, MD, FAAN, Atlanta, GA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Professionalism, Systems-Based Practice

Teaching Style: Interactive, Audience Participation, Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Tuesday, April 19, 2016 3:30 p.m.–5:30 p.m.

C154 Neuro-ophthalmology III

Topic: Neuro-ophthalmology/Neuro-otology

Director: Nancy J. Newman, MD, FAAN, Atlanta, GA

Program Description:

This is part three of a three-part comprehensive review of clinical neuro-ophthalmology designed to be a stand-alone course; however, attendees are strongly encouraged to attend all three parts. Numerous case presentations will be followed by related short reviews. Topics specifically addressed in part three include diplopia from a wide variety of causes including muscle, neuromuscular junction, cranial nerve, and internuclear and supranuclear disorders as well as nystagmus, 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 C130: Neuro-ophthalmology I and C139: Neuro-ophthalmology II, but covers independent topics.

Upon Completion:

Participants should become familiar with the diagnosis, evaluation, and treatment of common efferent neuro-ophthalmic problems.

Lecture/Faculty:

- ▶ **Case 1**
Valerie Biousse, MD, Atlanta, GA
- ▶ **Those Other Causes of Diplopia**
Nancy J. Newman, MD, FAAN, Atlanta, GA
- ▶ **Case 2**
Valerie Biousse, MD, Atlanta, GA
- ▶ **Supranuclear and Internuclear Ocular Motility Disorders**
Steven Galetta, MD, FAAN, New York, NY
- ▶ **Case 3**
Valerie Biousse, MD, Atlanta, GA
- ▶ **Nystagmus**
Steven Galetta, MD, FAAN, New York, NY
- ▶ **Case 4**
Nancy J. Newman, MD, FAAN, Atlanta, GA
- ▶ **Assorted Cases**
Valerie Biousse, MD, Atlanta, GA
Nancy J. Newman, MD, FAAN, Atlanta, GA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Wednesday, April 20, 2016 6:30 a.m.–8:30 a.m.

C172 Neuro Flash: Neuro-ophthalmology

Topic: Neuro-ophthalmology/Neuro-otology

Director: Valerie Biousse, MD, Atlanta, GA

Program Description:

Faculty will provide an interactive update on current hot topics in clinical neuro-ophthalmology, including what is new in the diagnosis and management of both afferent and efferent neuro-ophthalmic disorders such as vascular disorders of the retina, papilledema, optic neuritis, neuromyelitis optica, ischemic optic neuropathy, hereditary optic neuropathies, pupillary abnormalities, aneurysmal third nerve palsies, ocular myasthenia gravis, nystagmus. Faculty will also discuss new technologies in neuro-ophthalmology such as the expanding use of optical coherence tomography and fundus photography in clinical diagnosis, clinical trials, and epidemiological studies.

Upon Completion:

Participants should be familiar with some of the current hot topics in clinical and investigational neuro-ophthalmology.

Lecture/Faculty:

- **Neuro-ophthalmology Update: What is New?**
Valerie Biousse, MD, Atlanta, GA
Nancy J. Newman, MD, FAAN, Atlanta, GA

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Wednesday, April 20, 2016 1:00 p.m.–3:00 p.m.

C182 Neuro-otology I

Topic: Neuro-ophthalmology/Neuro-otology

Director: Terry D. Fife, MD, FAAN, Phoenix, AZ

Program Description:

Faculty will discuss the history and exam imaging of patients presenting with dizziness. There will be a discussion of the practical recognition of nystagmus and its interpretation. Faculty will discuss

benign paroxysmal positional vertigo and demonstrate its use as treatment in a way that can be implemented in clinical practice.

This program complements C196: Neuro-otology II, but covers independent topics.

Upon Completion:

Participants should understand how to evaluate and examine dizzy patients with the ability to recognize patterns and exam clues to the cause of symptoms; recognize key types of nystagmus; understand the mechanism and diagnostic implications; and become aware of the mechanism and treatment techniques for common forms of BPPV.

Lecture/Faculty:

- **Approach to the History, Examination, and Imaging Evaluation of the Dizzy Patient**
David E. Newman-Toker, MD, PhD, FAAN, Baltimore, MD
- **Nystagmus Made Simpler**
Scott D. Eggers, MD, Rochester, MN
- **Diagnosis and Treatment of Benign Paroxysmal Positional Vertigo (BPPV)**
Kevin A. Kerber, MD, Ann Arbor, MI

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Wednesday, April 20, 2016 3:30 p.m.–5:30 p.m.

C196 Neuro-otology II

Topic: Neuro-ophthalmology/Neuro-otology

Director: Terry D. Fife, MD, FAAN, Phoenix, AZ

Program Description:

Faculty will review the diagnosis and treatment of common disorders leading to dizziness including vestibular neuritis, Meniere's disease, vestibular migraine, benign paroxysmal positional vertigo, and several other important causes of dizziness. There will be a discussion of non-vertiginous forms of dizziness and how to manage these conditions. Finally, there will be a review of the how to determine central from peripheral causes of vertigo. Sessions will be as interactive as possible with an opportunity for questions and answers. Evidence-based management will be discussed when applicable.

This program complements C182: Neuro-otology I, but covers independent topics.

Upon Completion:

Participants should be familiar with common causes of vertigo and dizziness and how to use one's clinical skills to distinguish central from peripheral causes of vertigo.

Lecture/Faculty:

- **Peripheral Vertigo: Causes and Treatment**
Kevin A. Kerber, MD, Ann Arbor, MI

Course Descriptions

Neuro-ophthalmology/Neuro-otology

► **Vestibular Migraine**
Scott D. Eggers, MD, Rochester, MN

► **Non-vestibular Dizziness**
Terry D. Fife, MD, FAAN, Phoenix, AZ

► **Central Versus Peripheral Vertigo**
David E. Newman-Toker, MD, PhD, FAAN, Baltimore, MD

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Thursday, April 21, 2016 6:30 a.m.–8:30 a.m.

C202 ^{SIF} The Eyes and The Ears of Traumatic Brain Injury

Topics: Neuro-ophthalmology/Neuro-otology;
Subspecialty in Focus

Director: Laura J. Balcer, MD, MSCE, FAAN,
Philadelphia, NY



Program Description:

Traumatic brain injury (TBI) is a major cause of morbidity and mortality. Concussion, a form of mild TBI, might be associated with long-term neurological symptoms. TBI frequently affects multiple aspects of vision and vestibular function. Patients with mild TBI may have abnormalities of saccadic and pursuit eye movements, convergence, accommodation, and the vestibulo-ocular reflex. Moderate and severe TBI can also lead to ocular motor palsies, traumatic optic neuropathies, and orbital pathologies. This interactive program will present strategies for identifying signs and symptoms of visual and vestibular dysfunction in individuals with TBI across the age and acuity spectrum.

This program is offered in partnership with the North American Neuro-ophthalmology Society and the Neuro-ophthalmology/Neuro-otology Section.

Upon Completion:

Participants should be able to identify signs and symptoms of visual and vestibular dysfunction in individuals with concussion and TBI, and understand the differences in the spectrum of anticipated findings based on the severity of TBI. Fundamentals of the visual, ocular motor and vestibular examinations will be presented, as well as basics of vision-based performance testing for the sports sideline and other acute settings.

Lecture/Faculty:

- **Why the Eyes and Ears? What TBI Can Do to Vision**
Laura J. Balcer, MD, MSCE, FAAN, Philadelphia, NY
- **Double Trouble: The Assessment of Ocular Motor Function**
Janet C. Rucker, MD, New York, NY
- **My Head is Spinning: An Approach to Vestibular Dysfunction**
Terry D. Fife, MD, FAAN, Phoenix, AZ

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Thursday, April 21, 2016 6:30 a.m.–8:30 a.m.

C211 Emergency Room Neuro-ophthalmology

Topics: Neuro-ophthalmology/Neuro-otology;
Neuro Trauma, Critical Care, and Sports Neurology

Director: Heather Moss, MD, PhD, Chicago, IL

Program Description:

In the patient with acute visual loss, diplopia, extra-eye movements and pupil abnormalities, it is important to recognize certain entities as a timely diagnosis improves chances of a favorable outcome. Faculty will highlight such neuro-ophthalmic emergencies, focusing on evaluation and management. Didactic lectures, case examples, and open discussion with the faculty will provide the audience with both basic knowledge and updates on current controversies.

Upon Completion:

Participants should be familiar with the clinical features and initial management of neuro-ophthalmic conditions that present in the emergency department, including giant cell arteritis, pituitary apoplexy, aneurysmal third nerve palsy, cerebral venous thrombosis, arterial dissection, and brainstem ocular motor disorders.

Lecture/Faculty:

- **Approaching the ED Patient with Vision Loss**
Heather Moss, MD, PhD, Chicago, IL
- **Examining the Ocular Fundus and Interpreting What You See**
Beau B. Bruce, MD, Atlanta, GA
- **Characterizing Extra Eye Movements (Nystagmus, Etc.)**
Eric R. Eggenberger, DO, FAAN, East Lansing, MI
- **Approaching the ED Patient with Diplopia**
Heather Moss, MD, PhD, Chicago, IL

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic, Case Based, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Visit the Exhibit Hall

Don't forget to stop by the Exhibit Hall to network and preview the latest products and services available in the neurologic industry.

Neuro-rehabilitation

Saturday, April 16, 2016 6:30 a.m.–8:30 a.m.

C27 Lumbar Radiculopathy, Lumbar Spinal Stenosis, Low Back Pain, and Post-laminectomy Syndrome

Topics: Pain and Palliative Care;
Neuro-rehabilitation

Director: J. D. Bartleson, MD, FAAN, Rochester, MN

See complete course description on [page 109](#) »

Sunday, April 17, 2016 1:00 p.m.–3:00 p.m.

C75 Myelopathies I

Topic: Neuro-rehabilitation

Director: Benjamin M. Greenberg, MD, FAAN, Dallas, TX

Program Description:

Spinal cord disorders are frequently encountered by both general and subspecialty neurologists. They are potentially devastating, but treatable, conditions that require prompt recognition, testing, and treatment. Rapid scientific advances have enhanced and broadened our understanding of a wide spectrum of these disorders. This course will cover recognition, classification, diagnostic investigation, and management of myelopathies. Faculty will discuss vascular myelopathies, inflammatory and immune-mediated myelopathies, metabolic and toxic myelopathies, and the diagnostic approach to these syndromes. Case-based learning points will be used and will focus on practical clinical information and a comprehensive update on recent developments.

This program complements C88: Myelopathies II, but covers independent topics.

Upon Completion:

Participants should be familiar with the wide spectrum of myelopathies and develop a practical and systematic approach toward the investigation and management of these disorders; and be aware of the recent advances related to spinal dural arteriovenous fistulas, neuromyelitis optica, multiple sclerosis and other autoimmune disorders, copper deficiency, and other metabolic and toxic disorders.

Lecture/Faculty:

- ▶ **Inflammatory Myelopathies**
Benjamin M. Greenberg, MD, FAAN, Dallas, TX
- ▶ **Understanding Vascular Myelopathies**
Phillipe Gailloud, Baltimore, MD
- ▶ **Case Challenges**
Phillipe Gailloud, Baltimore, MD
Benjamin M. Greenberg, MD, FAAN, Dallas, TX

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Sunday, April 17, 2016 3:30 p.m.–5:30 p.m.

C88 Myelopathies II

Topic: Neuro-rehabilitation

Director: Benjamin M. Greenberg, MD, FAAN, Dallas, TX

Program Description:

Spinal cord disorders are encountered by both general and subspecialty neurologists. Regardless of underlying etiology, patients have a complex variety of symptoms and functional deficits that require management. Some of the most common symptoms can include pain, gait disturbance, bowel/bladder dysfunction, and sexual dysfunction. Patients can have great improvements in quality of life when managed appropriately. This course will review the various strategies and therapeutic options when managing these complex patients. Faculty will include case-based learning points and will focus on practical clinical information and a comprehensive update on recent developments.

This program complements C75: Myelopathies I, but covers independent topics.

Upon Completion:

Participants should be able to formulate management plans for patients relative to their neuropathic pain, rehabilitation needs, bladder management, bowel management, and sexual dysfunction.

Lecture/Faculty:

- ▶ **Managing Neuropathic Pain in Myelopathy Patients**
Faculty
- ▶ **Evaluating and Treating Gait Dysfunction in Myelopathy Patients**
Karen McCain, DPT, Dallas, TX
- ▶ **Managing Neurogenic Bowel and Bladder in Myelopathy Patients**
Anthony Burns, MD, Toronto, ON, Canada

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Monday, April 18, 2016

6:30 a.m.–8:30 a.m.

C97 Severe TBI: From ICU to Rehabilitation

Topics: Neuro-rehabilitation;
Aging, Dementia, Cognitive, and Behavioral Neurology;
Neuro Trauma, Critical Care, and Sports Neurology

Director: Holly E. Hinson, MD, Portland, OR

Program Description:

Traumatic brain injury (TBI) is one of the most common, disabling neurologic disorders; two percent of the US population lives with disability from TBI. Severe TBI presents a number of difficult clinical and research challenges in diagnosis and treatment, including early diagnosis and management to limit secondary injury and prognosis. This course will focus on severe TBI from acute treatment in the ICU to rehabilitation of severe brain injury. Faculty will discuss the mechanisms of brain damage after TBI, with emphasis on secondary brain injury, as well as best practices for acute management; prognostication after severe TBI; present the latest structural and functional neuroimaging methods including diffusion tensor imaging; describe emerging research in biomarkers with an emphasis on neuroinflammation; and address current controversies of diagnosis and treatment.

Upon Completion:

Participants should be familiar with the variety of mechanisms and pathophysiologic events associated with TBI and how to minimize secondary brain injury with up-to-date acute management procedures emphasizing relevant guidelines; and be comfortable using scoring systems and imaging techniques to aid in prognostication after severe TBI.

Lecture/Faculty:

- ▶ **Managing Severe TBI in the ICU**
Holly E. Hinson, MD, Portland, OR
- ▶ **Advanced Imaging in Severe TBI**
Brian Edlow, MD, Boston, MA
- ▶ **Pharmacological and Rehabilitative Approaches to Neurological Sequelae of TBI**
David L. Brody, MD, PhD, St. Louis, MO

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic, Case Based

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Monday, April 18, 2016

1:00 p.m.–3:00 p.m.

C106 Common Spine Disorders I: Evaluation

Topics: Neuro-rehabilitation;
Pain and Palliative Care

Director: J. D. Bartleson, MD, FAAN, Rochester, MN

Program Description:

Neurologists have a primary role in evaluating patients with spine and/or limb pain because of our ability to detect the presence of spinal cord, spinal nerve, or cauda equina impingement. This course will focus on the evaluation of common spine disorders, mostly due to spondylosis. Faculty will describe important aspects of the history and neurological and musculoskeletal examination of patients with spondylotic spine disorders and cover the use of neurophysiologic studies in the diagnosis of patients with spine and limb pain. Spine MRI is the most important diagnostic study in the evaluation of patients with spine and radicular limb pain. An experienced spine radiologist will instruct attendees when to obtain and how to interpret spine MRI, emphasizing correlation of imaging findings with the patient's clinical presentation.

This program complements C119: Common Spine Disorders II: Treatment, but covers independent topics.

Upon Completion:

Participants will be better able to diagnose common spine disorders using clinical skills. Participants will also learn when to obtain and how to interpret spine MRI.

Lecture/Faculty:

- ▶ **The History and Neurological Examination of Spine Disorders**
Ligia Viorela Onofrei, MD, Salt Lake City, UT
- ▶ **Spine Neuroimaging**
Timothy Maus, MD, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Monday, April 18, 2016

3:30 p.m.–5:30 p.m.

C119 Common Spine Disorders II: Treatment

Topics: Neuro-rehabilitation;
Pain and Palliative Care

Director: J. D. Bartleson, MD, FAAN, Rochester, MN

Program Description:

The natural history of many acute spine disorders is one of gradual improvement. Treatment for common acute and chronic spine disorders is available and effective. Care of the patient with spine and limb pain is usually gratifying. However, many treatments, including surgery, are used inappropriately, prematurely, and excessively. Faculty will describe the treatments that are helpful for acute and

chronic spine pain, radiculopathy, spondylotic myelopathy, and cauda equina syndrome. Injections for diagnostic and, especially, therapeutic purposes are commonly used in the care of patients with spine disorders. An experienced interventional radiologist will describe the procedures that are used to evaluate and treat patients with spine and radicular limb pain.

This program complements C106: Common Spine Disorders I: Evaluation, but covers independent topics.

Upon Completion:

Participants will be able to treat patients with common spine disorders using medications, physical treatments, and surgery. They will know when to refer patients with spine and/or radicular limb pain for epidural injections, facet blocks, and discography and understand the risks and benefits of these procedures.

Lecture/Faculty:

- ▶ **Treatment of Common Spine Disorders**
J. D. Bartleson, MD, FAAN, Rochester, MN
- ▶ **Interventional Spine Procedures**
Timothy Maus, MD, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Wednesday, April 20, 2016 1:00 p.m.–3:00 p.m.

C187 Rehabilitation in Neurology

Topic: Neuro-rehabilitation

Director: Karunesh Ganguly, MD, PhD, San Francisco, CA

Program Description:

Neurologic rehabilitation is a dynamic process through which patients optimize physical, cognitive, and social functions. It is a patient-centered, multidisciplinary endeavor involving neurologists and a wide range of providers. The ultimate objectives are to renew or maintain independence, participation, and quality of life despite the impairments. Over the past two decades, growing evidence supports specific approaches to neurologic rehabilitation. Rehabilitation is also the translation of basic and clinical neuroscience research to maximize mechanisms of neural reorganization and compensation. Faculty will use the examples of post-stroke care, as well as the care of patients with ALS, to highlight the role of neurologists in rehabilitation, as well as highlight future directions and emerging technologies that promise to revolutionize neurologic rehabilitation.

Upon Completion:

Participants should be able to develop a greater understanding of the multidisciplinary care of patients with disability from neurologic diseases, as well as develop understanding of the current research for improving care.

Lecture/Faculty:

- ▶ **Rehabilitation of Motor Deficits after Stroke**
Gary M. Abrams, MD, FAAN, San Francisco, CA
- ▶ **Multidisciplinary Care of ALS Patients**
Catherine Lomen-Hoerth, MD, PhD, San Francisco, CA
- ▶ **Neurotechnology for Rehabilitation**
Karunesh Ganguly, MD, PhD, San Francisco, CA

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Pain and Palliative Care

Saturday, April 16, 2016 6:30 a.m.–8:30 a.m.

C20 The Palliative Care Guide in Neurology: What You Must Know About Neuro-oncology

Topics: Neuro-oncology;
Pain and Palliative Care

Director: Tobias Walbert, MD, PhD, Detroit, MI

See complete course description on page 98 »

Saturday, April 16, 2016 6:30 a.m.–8:30 a.m.

C27 Lumbar Radiculopathy, Lumbar Spinal Stenosis, Low Back Pain, and Post-laminectomy Syndrome

Topics: Pain and Palliative Care;
Neuro-rehabilitation

Director: J. D. Bartleson, MD, FAAN, Rochester, MN

Program Description:

Spine conditions are exceedingly common. Neurologists are frequently asked to evaluate and treat patients with low back and lower limb pain with or without neurologic symptoms that could be due to spinal nerve or cauda equina compression. When should patients undergo costly diagnostic testing? What tests are indicated and when should they be obtained? What treatments are established and which ones are used with little or no scientific basis? When is surgery indicated? For many spine conditions, the evidence base for evaluating and treating patients is weak and often there are no right answers regarding patient care. The course will include a presentation by the author of an AAN position paper on the use of opioids for chronic non-cancer pain.

Upon Completion:

Participants will be familiar with evidenced-based recommendations for diagnostic testing and treatment of common lumbar spine disorders, including when to obtain advanced imaging, when and

Course Descriptions

Pain and Palliative Care

what kind of spine injections to order, the appropriate use of opioid analgesics for acute and chronic low back and radicular lower limb pain, and when to recommend lumbar spine surgery.

Lecture/Faculty:

- ▶ Case Presentations
J. D. Bartleson, MD, FAAN, Rochester, MN
- ▶ Opioids for Acute and Chronic Back and Lower Limb Pain
Faculty

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Case Based, Audience Participation, Interactive, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Non-Neurologist, Individuals With Low Back Pain

Monday, April 18, 2016 1:00 p.m.–3:00 p.m.

C106 Common Spine Disorders I: Evaluation

Topics: Neuro-rehabilitation;
Pain and Palliative Care

Director: J. D. Bartleson, MD, FAAN, Rochester, MN

See complete course description on [page 108 »](#)

Monday, April 18, 2016 1:00 p.m.–3:00 p.m.

C110 Core Concepts in Pain Management I: Refractory Neuropathic Pain—Practical Pharmacologics, Advances in Neuromodulation, and a Balanced look at Cannabinoids

Topic: Pain and Palliative Care

Director: James C. Watson, MD, Rochester, MN

Program Description:

Neuropathic pain is challenging to treat and frustrating to caregivers and patients when first-line agents are insufficient. This program is structured to be clinically relevant to non-pain specialists, with multidisciplinary faculty focusing on the treatment of refractory neuropathic pain. Topics will include the role of non-first line neuropathic pain adjuvants, NMDA antagonists, topicals, opioids, and cognitive behavioral treatments. Faculty will discuss the evolving role of neuromodulation for refractory neuropathic pain with new technologies and target sites. Because the accessibility of medical cannabinoids continues to grow, faculty will also discuss the facts and fiction behind cannabinoids in the treatment of neuropathic pain.

This program complements C124: Core Concepts in Pain Management II: Safe Opioid Prescribing—Practical Considerations, Unintended Consequences, and Legal Issues, but covers independent topics.

Upon Completion:

Participants should be familiar with multimodal treatment options for the treatment of refractory neuropathic pain and in what situations their use may be appropriate.

Lecture/Faculty:

- ▶ Refractory Neuropathic Pain—Multimodal Treatment Options
James C. Watson, MD, Rochester, MN
- ▶ Neuromodulation—Evolving Technologies, Targets, and Uses
Jason Eldrige, MD, Rochester, MN
- ▶ Cannabinoids: Fact or Fiction—A Balanced Look at Cannabinoid Usage for Neuropathic Pain
J. Michael Bostwick, MD, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic, Multidisciplinary

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Monday, April 18, 2016 3:30 p.m.–5:30 p.m.

C119 Common Spine Disorders II: Treatment

Topics: Neuro-rehabilitation;
Pain and Palliative Care

Director: J. D. Bartleson, MD, FAAN, Rochester, MN

See complete course description on [page 108 »](#)

Monday, April 18, 2016 3:30 p.m.–5:30 p.m.

C124 Core Concepts in Pain Management II: Safe Opioid Prescribing—Practical Considerations, Unintended Consequences, and Legal Issues

Topic: Pain and Palliative Care

Director: James C. Watson, MD, Rochester, MN

Program Description:

Chronic opioid therapy (COT) is becoming increasingly common in the treatment of chronic non-cancer pain. In neurology practice, it is most often used in the treatment of chronic peripheral or central neuropathic pain, musculoskeletal pain in patients with limited mobility from neurologic deficits, headache, or restless legs syndrome. Faculty will address safe opioid prescribing and monitoring; discuss patient selection and risk factors for chronic opioid therapy, as well as for aberrant use, misuse, abuse, or diversion; cover opioid selection and side effects, including emerging evidence of unintended metabolic consequences of chronic opioid therapy such as hypogonadism and osteoporosis; and discuss opioid-induced hyperalgesia and its clinical implications. The session will conclude with a physician defense attorney discussing legal implications of opioid prescribing.

This program complements C110: Core Concepts in Pain Management II: Refractory Neuropathic Pain—Practical Pharmacologics, Advances in Neuromodulation, and a Balanced Look at Cannabinoids, but covers independent topics.

Upon Completion:

Participants should be able to identify patients for whom opioid therapy may be appropriate and safe, implement appropriate safeguards and monitoring for patients on chronic opioid therapy, recognize long-term adverse effects of chronic opioid therapy, and understand the legal requirements of physicians prescribing opioids.

Lecture/Faculty:

- ▶ **Opioids: Pharmacology, Indications, Patient Selection, and Appropriate Use**
Jason Eldrige, MD, Rochester, MN
- ▶ **Mitigating Unintended Consequences—Safe Prescribing, Adverse Effects, and Monitoring**
James C. Watson, MD, Rochester, MN
- ▶ **Legal Issues in Opioid Prescribing**
Joanne Martin, JD, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic, Multidisciplinary

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Thursday, April 21, 2016 6:30 a.m.–8:30 a.m.

C210 Non-Neuro-oncology Palliative Care

Topics: Pain and Palliative Care;
Practice/Policy

Director: Maisha T. Robinson, MD, MS, Jacksonville, FL

Program Description:

Palliative care is important in neurologic practice as the trajectory of many neurologic illnesses is progressive and incurable. Recent national platforms have underscored the need for physicians to be knowledgeable about and competent in basic palliative care. Through the use of personal anecdotes, case presentations, and examples in the literature, faculty will provide strategies to effectively incorporate palliative care into routine neurologic practice.

Upon Completion:

Participants should have increased knowledge regarding basic palliative care that is applicable to neurologists and gain insight on how to incorporate this into their practice.

Lecture/Faculty:

- ▶ **Role of Palliative Neurologists in Education**
Maisha T. Robinson, MD, MS, Jacksonville, FL
- ▶ **Training in Palliative Care as a Neurologist**
Neha P. Kramer, MD, Chicago, IL
- ▶ **Building a Neuro-palliative Care Program**
Janis Miyasaki, MD, FAAN, Edmonton, AB, Canada

- ▶ **Incorporating Palliative Care Into Hospital Neurology Practice**
Claire Creutzfeldt, MD, Seattle, WA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care

Teaching Style: Didactic, Case Based, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Practice/Policy

Friday, April 15, 2016 9:00 a.m.–5:00 p.m.

C5 Women in Leadership (registration required)

Topics: Practice/Policy;
Research Methodology, Education, and History

Directors: Barbara L. Hoese, President, Penticore Coaching, Minneapolis, MN
Cynthia L. Comella, MD, FAAN, Chicago, IL

Program Description:

Today more than 50 percent of physicians and trainees in neurology are women. Yet women still remain underrepresented in the top leadership positions in academic medical centers or large private practices. This course will focus on identifying and building women's capacities to lead in academe or private sectors and in the field of neurology.

Upon Completion:

Participants should develop the capacity to lead at higher levels in their institution or practice and in the field of neurology; engage with role models through involvement with women Academy Fellows; embrace their own leadership capability; become equipped to express their leadership voice and be heard, regardless of audience; identify and learn skills to lead through influence, rather than authority.

Lecture/Faculty:

- ▶ **The Call for Women to Lead; What Is Required of Leadership Today?; Women Leaders and Significance to Neurology**
Cynthia L. Comella, MD, FAAN, Chicago, IL
Barbara L. Hoese, Minneapolis, MN
- ▶ **Leadership Styles—Does Gender Matter?; The Changing Biases Women (and Others!) Face Today; What Would You Do? Vignette; Communication Styles—Are There Differences?**
Cynthia L. Comella, MD, FAAN, Chicago, IL
Barbara L. Hoese, Minneapolis, MN
- ▶ **Leading From Your Strengths; What Is Authentic Leadership?; What Are Your Strengths—How Will You Use Them to Lead?; What Is Your Leadership Purpose?**
Cynthia L. Comella, MD, FAAN, Chicago, IL
Barbara L. Hoese, Minneapolis, MN

► **Panel Discussion: Learning from Women Leaders, Mentors and Role Models**

Sarah M. Benish, MD, FAAN, Edina, MN

Jean P. Hubble, MD, Danbury, CT

Janice M. Massey, MD, FAAN, Durham, NC

Maisha T. Robinson, MD, MS, Jacksonville, FL

Ann H. Tilton, MD, FAAN, New Orleans, LA

Barbara G. Vickrey, MD, MPH, FAAN, New York, NY

► **Leading Forward: What Are Your Opportunities to Lead?; Gaining Sponsorship**

Cynthia L. Comella, MD, FAAN, Chicago, IL

Barbara L. Hoes, Minneapolis, MN

► **Focusing on Your Role as a Leader to Advocate for Institutional Policies; Finding Your Voice; Using Your Story; Committing to Your Leadership Development**

Cynthia L. Comella, MD, FAAN, Chicago, IL

Barbara L. Hoes, Minneapolis, MN

Core Competency: Interpersonal and Communication Skills; Professionalism

Teaching Style: Audience Participation, Interactive, Case Based,

CME Credits: No CME

Recommended Audience: Women with Some Leadership Experience Who Seek to Prepare for Greater Leadership Roles in Their Careers

Friday, April 15, 2016

1:00 p.m.–3:00 p.m.

C6 ICD-10-CM: How to Optimize for Accurate Diagnosis and Reimbursement

Topic: Practice/Policy

Director: Jeffrey R. Buchhalter, MD, FAAN, Calgary, AB, Canada

Program Description:

On October 1, 2015, the ICD-10-CM code set became required for all transactions involving reimbursement from the Center for Medicare and Medicaid Services, as well as for other third party payers. Although testing was performed by CMS, payers, and providers, some users still either do not understand how to optimally use the coding system or have difficulties with reimbursement. Presenters will focus on practical aspects ICD-10 use and business related issues that have occurred. Topics covered will include: the importance of ICD-10 for accurate coding for individual patient care, public health, research purposes, and relationship to quality measures; the basics of coding the most common neurologic disorders; electronic resources available to assist with coding; business procedures to assure appropriate reimbursement.

Upon Completion:

Upon completion, participants should be able to understand how ICD-10 is different from ICD-9, know how ICD-10 codes can reflect severity of illness, know how to use available electronic resources to code common neurological disorders, and avoid and respond to denials for reimbursement.

Lecture/Faculty:

► **Benefits of ICD-10-CM**

Jeffrey R. Buchhalter, MD, FAAN, Calgary, AB, Canada

► **Coding Common Neurological Disorders with ICD-10-CM**

Laura B. Powers, MD, FAAN, Knoxville, TN

► **Business Considerations for ICD-10-CM**

Bryan Soronson, CRA, FACMPE, MPA, Baltimore, MD

Core Competencies: Medical Knowledge, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Interactive, Audience Participation, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Practice Manager, Billing Specialist, Nurse Practitioner, Advanced Practice Providers

Friday, April 15, 2016

1:00 p.m.–3:00 p.m.

C7 Applications of Teleneurology: General

Topic: Practice/Policy

Director: Kevin M. Biglan, MD, Rochester, NY

Program Description:

Remote consultation via telemedicine for neurologic indications is becoming mainstream. For some time this has been true for neurologic emergencies, such as acute stroke, but its use has extended into most of the subspecialties of clinical neurology in both acute and ambulatory practices. Faculty will present and lead a discussion on how telemedicine and related technologies are influencing and modifying current neurologic practice.

This program complements C13: Applications of Teleneurology: Telestroke, but covers independent topics.

Upon Completion:

Participants should be able to describe the infrastructure, existing networks, and subspecialty service lines in acute and chronic care, applications, business models and financial aspects, and medico-legal issues in neurology connected care practice; and understand the related telehealth technologies, including mobile health applications.

Lecture/Faculty:

► **Managing Chronic Neurological Disorders Using Telemedicine**

Kevin M. Biglan, MD, Rochester, NY

► **Practical Approach to Remote Neurophysiological Monitoring**

A. James Fessler, III, MD, Rochester, NY

► **The Operational and Legal-regulatory Considerations of Telehealth**

Natasa Sokolovich, JD, MSH, Pittsburgh, PA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Neurology Practice Administrator/Manager, Advanced Practice Providers

Friday, April 15, 2016

1:00 p.m.–5:00 p.m.

C9 Lost in Transition

Topic: Practice/Policy

Director: Anup D. Patel, MD, Columbus, OH

Program Description:

The topic of care transitions and care coordination are very important in the current and ever changing health care landscape. Providers need to identify frequent pitfalls of care transitions and how to address these concerns to improve patient care. A strong focus currently exists as it relates to these topics and improvements are needed in order for neurology providers to provide the best and high-quality care in a safe manner to our patient population.

Upon Completion:

Participants should be able to understand the important features necessary to properly transition a neurology patient from the inpatient to outpatient care setting and from a child neurology to an adult neurology provider. Further, participants will gain a better understanding of care coordination and how to use this service more effectively and efficiently to their patient population.

Lecture/Faculty:

- ▶ Award Winner Presentation
Anup D. Patel, MD, Columbus, OH
- ▶ Transitions from Inpatient to Outpatient Care: Challenges and Opportunities
S. Andrew Josephson, MD, San Francisco, CA
- ▶ Quality Improvement Methods to Support Transition from Pediatric to Adult Neurology
Jennifer A. Disabato, DNP, CPNP-PC, AC, Aurora, CO
- ▶ Care Coordination and Management in Neurology
Zachary Grinspan, MD, New York, NY

Core Competencies: Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic

CME Credits: 4.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Other Care Team Members, Advanced Practice Providers

Friday, April 15, 2016

3:30 p.m.–5:30 p.m.

C12 Advanced Neurologic Coding

Topics: Practice/Policy;
General Neurology

Director: Peter D. Donofrio, MD, FAAN, Nashville, TN

Program Description:

This program will consist of three 40-minute lectures on the topics of advanced E&M coding, advanced coding for electrophysiologic testing, and coding for infusions.

Upon Completion:

Participants should be able to use codes not commonly used to bill for outpatient and inpatient visits; gain a better understanding of electrophysiologic codes and how and when to use them; and understand how to bill for infusions and/or oversee someone in their clinical setting who performing infusion code billing.

Lecture/Faculty:

- ▶ E&M Coding: Billing for Time, Prolonged Visits, Coordination, and Transitional Care
Peter D. Donofrio, MD, FAAN, Nashville, TN
- ▶ Clinical Neurophysiology Coding
Neil A. Busis, MD, FAAN, Pittsburgh, PA
- ▶ Advanced Coding: Infusions
Joseph V. Fritz, PhD, Amherst, NY

Core Competencies: Medical Knowledge, Patient Care, Systems-Based Practice

Teaching Style: Didactic, Case Based, Audience Participation, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Friday, April 15, 2016

3:30 p.m.–5:30 p.m.

C13 Applications of Teleneurology: Telestroke

Topic: Practice/Policy

Director: Kevin M. Barrett, MD, Jacksonville, FL

Program Description:

Telestroke has been validated as safe and effective for hospital-based diagnosis and treatment of acute ischemic stroke. Very recent advances in technology and evidence supporting combined intravenous and endovascular treatment of ischemic stroke has opened a unique window of opportunity for further expansion of telemedicine into the stroke continuum of care. Through presentations and discussions, faculty will highlight best practices related to development and maintenance of hospital-based telestroke networks, review evidence and emerging applications of pre-hospital telemedicine for acute stroke, and forecast future applications of telemedicine (i.e., teleneurosonology) in stroke systems of care.

This program complements C7: Applications of Teleneurology: General, but covers independent topics.

Upon Completion:

Participants should be able to describe essential elements necessary to build and maintain hospital-based telestroke networks, anticipate common barriers to effective implementation of telestroke networks, review emerging evidence supporting pre-hospital telemedicine to reduce alarm-to-treatment times, identify opportunities for implementation of pre-hospital telemedicine in stroke systems of care, and understand the utility of telemedicine peripherals to extend clinical examination and diagnosis beyond current practice.

Course Descriptions

Practice/Policy

Lecture/Faculty:

- ▶ **Telestroke Networks: Established Applications & Best Practices**
Bart M. Demaerschalk, MD, MSc, FRCPC, Phoenix, AZ
- ▶ **Pre-hospital and Mobile Applications of Telestroke**
Andrew M. Southerland, MD, Charlottesville, VA
- ▶ **Telestroke Examination & Peripherals**
Kevin M. Barrett, MD, Jacksonville, FL

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Didactic, Audience Participation

CME Credits: 2.0

Recommended Audience: Specialist Neurologist

Saturday, April 16, 2016 6:30 a.m.–8:30 a.m.

C26 Leadership in Neurology: Be a Champion for Your Patients and Protector of Your Specialty with Payers, Policymakers, and the Public

Topic: Practice/Policy

Director: Elaine C. Jones, MD, FAAN, Bristol, RI

Program Description:

Evolution of the health care landscape requires neurologists to learn new skills and take advantage of the opportunities that accompany health system reform. Faculty will underscore the importance for neurologists to become active leaders for their patients and profession. This course will teach the basics of interacting with insurers, policy makers, and the public via the media. The course is designed to assist participants in identifying points of influence and effective advocacy methods they can employ. Learning the fundamentals of effective communication, media interviews, sound bite development, and relationship building will assist participants in getting their message heard. Faculty will cover how individual members can position neurology and themselves as leaders and effective advocates with payers, regulators, and other policy makers.

Upon Completion:

Participants will be able to act as leaders in advocating for changes that benefit neurology patients and the profession; learn about resources inside and outside of the Academy to help them with these goals; understand the importance of forming lasting relationships with policy makers; learn how and when to use local media outlets; and understand how to effectively develop key messages for media interviews. Participants will develop skills in engaging these groups.

Lecture/Faculty:

- ▶ **Government (Un)relations**
Eddie L. Patton, MD, MS, Sugar Land, TX
- ▶ **Getting Payers to Pay**
Elaine C. Jones, MD, FAAN, Bristol, RI
- ▶ **Convincing the Public**
Anthony G. Alessi, MD, FAAN, Norwich, CT
- ▶ **Practice Makes Perfect—Your Turn!**
Faculty

Core Competencies: Interpersonal and Communication Skills, Professionalism

Teaching Style: Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, International Neurologist, Advanced Practice Providers

Sunday, April 17, 2016 6:30 a.m.–8:30 a.m.

C63 Improving Patients' and Families' Satisfaction and Experiences with Neurologic Care

Topic: Practice/Policy

Director: David Y. Hwang, MD, New Haven, CT

Program Description:

This program will focus on understanding methods by which patient and family experiences can be assessed in a variety of neurologic practice environments, and providing a forum for discussion on how initiatives specifically designed to improve such experiences can be successfully implemented. The first didactic session will cover the aforementioned topics as they pertain to outpatient clinic environments. The second didactic session will focus on how the patient and family experience in inpatient neurology environments can be potentially optimized. Lectures will be followed by open forum sessions, for which attendees are encouraged to bring examples of real-life situations where improvement in patient and family support might be needed and where strategies for improvement have been implemented. This program will be geared not only towards neurologists but all attendees who work directly with patients and families, including advanced practice providers, nurses, therapists, administrators, and support staff.

This program complements C73: Quality Improvement in Practice, but covers independent topics.

Upon Completion:

Participants should become familiar with the currently available standardized methods for assessing patient experience outcomes in their inpatient and outpatient practices; how such assessments in certain situations are publically reported and affect reimbursement; and generalizable strategies for implementing changes in their practices that may lead to improvement in patients' experience. Specific examples of institutions that have managed to implement successful patient experience improvement initiatives will demonstrate actionable strategies for removing barriers to improvement, in a variety of different health care environments.

Lecture/Faculty:

- ▶ **Measuring and Improving Your Patients' Experience in Outpatient Clinics**
Sarah M. Benish, MD, FAAN, Edina, MN
- ▶ **Discussion and Interactive Case Presentations of Successful Patient Experience Improvement Initiatives in the Outpatient Setting**
Faculty

- ▶ Measuring and Improving the Experiences of Patients and Families in Inpatient Settings
David Y. Hwang, MD, New Haven, CT

- ▶ Discussion and Interactive Case Presentations of Successful Patient Experience Improvement Initiatives in the Inpatient Setting
Faculty

Core Competencies: Interpersonal and Communication Skills, Patient Care, Professionalism

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Nurses, Therapists, Administrators, Support Staff, Advanced Practice Providers

Sunday, April 17, 2016 1:00 p.m.–3:00 p.m.

C73 Quality Improvement in Practice

Topic: Practice/Policy

Director: Christopher Bever, Jr., MD, MBA, FAAN, Baltimore, MD

Program Description:

The program will combine brief didactic presentation with small group problem solving using the peer instruction model led by faculty. Each participant will be assigned to a small group (< 10 participants). The course will conclude with a didactic session on implementing quality improvement interventions in practice.

This program complements C63: Improving Patients' and Families' Satisfaction and Experiences with Neurologic Care, but covers independent topics.

Upon Completion:

Participants should be able to implement a quality improvement program in their own practice.

Lecture/Faculty:

- ▶ Overview of Quality Improvement and Measures
David Z. Wang, DO, FAAN, FAHA, Peoria, IL
- ▶ Application of Measure Sets to Cases
Eric M. Cheng, MD, MS, FAAN, Los Angeles, CA
- ▶ Developing and Implementing a Remediation/Improvement Plan
Michael Phipps, MD, Baltimore, MD

Core Competency: Practice-Based Learning and Improvement

Teaching Style: Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Advanced Practice Providers

Sunday, April 17, 2016 1:00 p.m.–5:00 p.m.

C82 Between Mars and Venus: How Great Leadership Adopts Traits from the Best of Both Genders (registration required)

Topic: Practice/Policy

Directors: Orly Avitzur, MD, MBA, FAAN, Tarrytown, NY
Stefan M. Pulst, MD, FAAN, Salt Lake City, UT
Barbara L. Hoese, President, Penticore Coaching, Minneapolis, MN

Program Description:

The work of leadership is to identify, develop, and sponsor future leaders. While women make up half of the labor force—and over 50% of neurologists are women—they are still underrepresented in senior leadership roles in both private practice and academe. Recent research on the leadership asserts that the most successful organizations make a concerted effort to have both women and men in key leadership positions. If the best organizations ensure that top positions are occupied by both men and women, why are so few women represented at the top? According to a study conducted by McKinsey & Company, what holds women back are “entrenched beliefs.” While organizations have worked hard to eliminate overt discrimination, the current culture and mindsets of people still limit women’s opportunities. This course provides a unique opportunity for men and women to share ideas and learn best practices to create an open work culture and how to sponsor promising young leaders—women or men.

Upon Completion:

Participants should be able to understand differences in style between men and women; uncover mindsets and entrenched structures that lead to unintended inequities in leadership opportunities; develop skills to work effectively with men and women; adopt more effective communications styles; learn practical ideas approaches in leadership from your colleagues; and create and lead “gender-neutral” workplaces.

Lecture/Faculty:

- ▶ Leadership Characteristics: What Makes Someone a Successful Leader? Latest Research on Leadership and Gender: Why Invest in Leadership Equity?
Orly Avitzur, MD, MBA, FAAN, Tarrytown, NY
Barbara L. Hoese, Minneapolis, MN
Stefan M. Pulst, MD, FAAN, Salt Lake City, UT
- ▶ He Said/She Said—Differences in Styles
Orly Avitzur, MD, MBA, FAAN, Tarrytown, NY
Barbara L. Hoese, Minneapolis, MN
Stefan M. Pulst, MD, FAAN, Salt Lake City, UT

- **Entrenched Beliefs and Structures—What Are They? What Are Common Beliefs About Women vs. Men and Leadership? Examining Entrenched Structures Data-driven Change and Transparency Uncovering and Changing Beliefs and Systemic Systems**

Orly Avitzur, MD, MBA, FAAN, Tarrytown, NY

Barbara L. Hoese, Minneapolis, MN

Stefan M. Pulst, MD, FAAN, Salt Lake City, UT

- **Developing Your Action Plan: Where Are the Gaps in Your Organization? What Can You Do to Close Them? Identifying and Sponsoring Leaders with Potential**

Orly Avitzur, MD, MBA, FAAN, Tarrytown, NY

Barbara L. Hoese, Minneapolis, MN

Stefan M. Pulst, MD, FAAN, Salt Lake City, UT

Core Competencies: Interpersonal and Communication Skills, Professionalism

Teaching Style: Interactive, Didactic, Audience Participation

CME Credits: No CME

Recommended Audience: Women and Men in Mid- and Senior-level leadership positions tasked with creating or sustaining a workplace culture that embraces equal leadership opportunities.

Monday, April 18, 2016

1:00 p.m.–3:00 p.m.

C112 Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients I *(registration required)*

Topic: Practice/Policy;

Research Methodology, Education, and History

Director: Gary S. Gronseth, MD, FAAN, Kansas City, KS

Program Description:

The primary goals of this program is to de-mystify EBM concepts and equip participants with the knowledge and tools needed to translate evidence (a published article, a research presentation) into action (a specific intervention). The program will minimize traditional didactic presentations, and will instead emphasize small group problem-solving using the peer instruction model.

Participants should come to the course with a laptop computer with Microsoft Excel. A tablet computer such as an iPad will not be sufficient. The laptop computer should have the ability to connect to internet wirelessly. Wireless internet access will be provided throughout the course. Additionally, the laptop computer should be capable of reading a USB flash drive. Some interactive course materials will be distributed via a USB flash drive.

This program complements C126: Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients II, but covers independent topics. Participants of this program should plan on attending both Part I and Part II.

Upon Completion:

Participants will understand the principles of evidence-based medicine and critical review, and how these apply to the bedside

practice of neurology; will be able to deconstruct published articles addressing therapeutic questions, assess their accuracy and rigor, and make appropriate evidence-based clinical decisions; will dramatically reduce their susceptibility to being misled by bias and the misuse of statistical procedures; and will feel comfortable developing, investigating, and publishing the findings of their own clinical research questions.

Lecture/Faculty:

- **Asking Evidence Answerable Questions**

Melissa Armstrong, MD, MSc, Gainesville, FL

Michael Glantz, MD, FAAN, Hershey, PA

Gary S. Gronseth, MD, FAAN, Kansas City, KS

Steven R. Messe, MD, FAAN, FAHA, Philadelphia, PA

Tamara M. Pringsheim, MD, Calgary, AB, Canada

- **Pragmatic Literature Searching**

Melissa Armstrong, MD, MSc, Gainesville, FL

Michael Glantz, MD, FAAN, Hershey, PA

Gary S. Gronseth, MD, FAAN, Kansas City, KS

Steven R. Messe, MD, FAAN, FAHA, Philadelphia, PA

Tamara M. Pringsheim, MD, Calgary, AB, Canada

- **Selecting High Quality Evidence**

Melissa Armstrong, MD, MSc, Gainesville, FL

Michael Glantz, MD, FAAN, Hershey, PA

Gary S. Gronseth, MD, FAAN, Kansas City, KS

Steven R. Messe, MD, FAAN, FAHA, Philadelphia, PA

Tamara M. Pringsheim, MD, Calgary, AB, Canada

Core Competencies: Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Monday, April 18, 2016

1:00 p.m.–3:00 p.m.

C114 Contemporary Ethical Issues

Topic: Practice/Policy

Director: James A. Russell, DO, FAAN, Burlington, MA

Program Description:

There are a number of contemporary ethical issues that are evolving that are relevant to the practicing neurologist that will be reviewed and ethically analyzed including religious considerations in vaccination and determination of death by neurological criteria, economic credentialing and no-sue contracts between patients and physicians.

Upon Completion:

Participants will become aware of these issues and their potential impact on their care of patients, be exposed to the ethical analysis of these issues, and become familiar with strategies to address these issues should they arise in their practices.

CME Credits: 2.0

Monday, April 18, 2016

1:00 p.m.–5:00 p.m.

C115 Improving Your Leadership Skills: A Practical Approach (registration required)

Topics: Practice/Policy;
Research Methodology, Education, and History

Directors: Terrence L. Cascino, MD, FAAN, Rochester, MN
Ralph L. Sacco, MD, MS, FAHA, FAAN, Miami, FL

Program Description:

Leadership has been defined as “having a sound vision and convincing others to follow you.” This course will assist you in implementing the vision and offer practical tips and case examples on how to persuade others to follow. Course reading materials will be provided.

Upon Completion:

Participants should learn to apply knowledge to roles as a leader in the hospital, community, state medical society, professional organizations, and political action.

Lecture/Faculty:

- ▶ **Characteristics of a Good Leader**
Terrence L. Cascino, MD, FAAN, Rochester, MN
- ▶ **Planning 101**
Terrence L. Cascino, MD, FAAN, Rochester, MN
- ▶ **Change Management**
Ralph L. Sacco, MD, MS, FAHA, FAAN, Miami, FL
- ▶ **Critical Conversations**
Terrence L. Cascino, MD, FAAN, Rochester, MN
- ▶ **Secrets of Being an Effective AAN or Institutional Leader**
Ralph L. Sacco, MD, MS, FAHA, FAAN, Miami, FL
- ▶ **Wrap Up**
Terrence L. Cascino, MD, FAAN, Rochester, MN

Core Competencies: Interpersonal and Communication Skills, Professionalism

Teaching Style: Interactive, Didactic

CME Credits: 3.5

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

New Dates: Friday through Thursday

While previous Annual Meetings have traditionally run Saturday through Saturday, the 2016 meeting will begin on a Friday and end on a Thursday. This new, condensed timeframe creates opportunities for some exciting changes while still allowing you to completely customize your schedule to your interests and needs.

Monday, April 18, 2016

3:30 p.m.–5:30 p.m.

C126 Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients II (registration required)

Topic: Practice/Policy;
Research Methodology, Education, and History

Director: Gary S. Gronseth, MD, FAAN, Kansas City, KS

Program Description:

The primary goals of this program is to de-mystify EBM concepts and equip participants with the knowledge and tools needed to translate evidence (a published article, a research presentation) into action (a specific intervention). The program will minimize traditional didactic presentations, and will instead emphasize small group problem-solving using the peer instruction model.

Participants should come to the course with a laptop computer with Microsoft Excel. A tablet computer such as an iPad will not be sufficient. The laptop computer should have the ability to connect to internet wirelessly. Wireless internet access will be provided throughout the course. Additionally, the laptop computer should be capable of reading a USB flash drive. Some interactive course materials will be distributed via a USB flash drive.

This program complements C112: Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients I, but covers independent topics. Participants of this program should plan on attending both Part I and Part II.

Upon Completion:

Participants will understand the principles of evidence-based medicine and critical review, and how these apply to the bedside practice of neurology; will be able to deconstruct published articles addressing therapeutic questions, assess their accuracy and rigor, and make appropriate evidence-based clinical decisions; will dramatically reduce their susceptibility to being misled by bias and the misuse of statistical procedures; and will feel comfortable developing, investigating, and publishing the findings of their own clinical research questions.

Lecture/Faculty:

- ▶ **Bias (Internal and External Validity)**
Melissa Armstrong, MD, MSc, Gainesville, FL
Michael Glantz, MD, FAAN, Hershey, PA
Gary S. Gronseth, MD, FAAN, Kansas City, KS
Steven R. Messe, MD, FAAN, FAHA, Philadelphia, PA
Tamara M. Pringsheim, MD, Calgary, AB, Canada
- ▶ **Interpreting Effects**
Melissa Armstrong, MD, MSc, Gainesville, FL
Michael Glantz, MD, FAAN, Hershey, PA
Gary S. Gronseth, MD, FAAN, Kansas City, KS
Steven R. Messe, MD, FAAN, FAHA, Philadelphia, PA
Tamara M. Pringsheim, MD, Calgary, AB, Canada

► **Making Decisions—More Than Evidence**

Melissa Armstrong, MD, MSc, Gainesville, FL

Michael Glantz, MD, FAAN, Hershey, PA

Gary S. Gronseth, MD, FAAN, Kansas City, KS

Steven R. Messe, MD, FAAN, FAHA, Philadelphia, PA

Tamara M. Pringsheim, MD, Calgary, AB, Canada

Core Competencies: Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Case Based, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Tuesday, April 19, 2016

6:30 a.m.–8:30 a.m.

C131 Practical Legal Issues for Neurologists

Topic: Practice/Policy

Director: Daniel G. Larriviere, MD, JD, FAAN, New Orleans, LA

Program Description:

Changes in US law can change how clinical decisions are made. However, maintaining a current understanding of recent changes is difficult for many neurologists. Faculty will discuss the latest legal developments within the domains of malpractice, physician assisted suicide, and right to try legislation.

Upon Completion:

Participants should be able to discuss in general terms the effects that legal requirements have on their practice, how to navigate making decisions when a patient requests assistance with suicide or when seeking to receive experimental therapies outside of a clinical trial.

Lecture/Faculty:

► **Trends in Medical Malpractice**

Bruce Gehle, JD, Charlottesville, VA

► **Right to Try Legislation in the US**

Zachary Simmons, MD, FAAN, Hershey, PA

► **Physician Assisted Suicide**

Daniel G. Larriviere, MD, JD, FAAN, New Orleans, LA

Core Competencies: Interpersonal and Communication Skills, Patient Care, Professionalism, Systems-Based Practice

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

New Experiential Learning

Everyone has a different learning style, and the state-of-the-art Vancouver Convention Centre—host to major events such as the 2010 Olympics and acclaimed TED conference—will allow us to deliver innovative and exciting content like never before with dynamic and interactive learning areas available all week long.

Tuesday, April 19, 2016

1:00 p.m.–3:00 p.m.

C140 Clinical Neurology for Advanced Practice Providers I

Topic: Practice/Policy

Director: Cynthia L. Comella, MD, FAAN, Chicago, IL

Program Description:

The role of Advanced Practice Providers (APP) in the care of neurological patients is increasingly critical. Through a review of the clinical features and diagnostic work up of common neurological problems, including Parkinson's disease, psychiatric presentations of neurological disorders and case review, the APP will be able to directly apply this knowledge to their neurological practice.

This program complements C163: Clinical Neurology for Advanced Practice Providers II, but covers independent topics.

Upon Completion:

Participants should have a knowledge of the diagnosis of Parkinson's disease and the psychiatric presentation of neurological disorders, and be able to evaluate patients the clinical setting.

Lecture/Faculty:

► **Diagnosis of Parkinsonism and Parkinson's Disease**

Cynthia L. Comella, MD, FAAN, Chicago, IL

► **Approach to the Dizzy Patient**

Jessica Erfan, PA-C, Austin, TX

► **Case Presentations**

Faculty

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Non-Neurologist, Nurse Practitioner, Physician Assistant, Advanced Practice Providers

Tuesday, April 19, 2016

1:00 p.m.–5:00 p.m.

C233 The Most Important Tool in Your Black Bag: Gallup StrengthsFinder™ Assessment I (registration required)

Topic: Practice/Policy;

Research Methodology, Education, and History

Directors: Keri Bischoff, Senior Consultant, Anderson & Bischoff Strengths Consulting, St. Paul, MN
Julie Anderson, Senior Consultant, Anderson & Bischoff Strengths Consulting, St. Paul, MN

Program Description:

"A leader needs to know his strengths as a carpenter knows his tools, or a physician knows the instruments at her disposal."—Donald Clifton In this customized half-day workshop two Gallup Certified consultants will share a language for understanding your unique strengths, which has powerful application for well-being and happiness.

Using the science behind the StrengthsFinder™ assessment we'll discover your top five talent themes, and a positive language to leverage what's right. We'll share ways this approach can change the culture of your organization through engagement, which leads to increased productivity, patient satisfaction, and peer understanding.

Gallup research reveals that in health care, relationships are key. How can we optimize communication skills? To patients, feelings are facts: how do you relate to others, and how do others experience you? Do you know?

On-line assessment code available prior to workshop. Customized materials provided.

Upon Completion:

Actionable, customized insight in to your own unique Strengths, leading to greater well-being. Awareness of individual and team communication styles in personal and organizational contexts.

Lecture/Faculty:

- ▶ Foundation of Gallup StrengthsFinder™ Philosophy
Keri Bischoff, St. Paul, MN
- ▶ Applying Strengths Personally and Professionally
Julie Anderson, St. Paul, MN
- ▶ Organizational Application
Keri Bischoff, St. Paul, MN
- ▶ Communication, Strengths and Misperceptions
Julie Anderson, St. Paul, MN

Core Competencies: Interpersonal and Communication Skills, Professionalism, Self-Awareness

Teaching Style: Case-Based, Didactic

CME Credits: No CME

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advance Practice Provider

Tuesday, April 19, 2016 3:30 p.m.–5:30 p.m.

C163 Clinical Neurology for Advanced Practice Providers II

Topic: Practice/Policy

Director: Cynthia L. Comella, MD, FAAN, Chicago, IL

Program Description:

The role of the Advanced Practice Provider (APP) in the care of neurologic patients is increasingly critical, and this program is designed to improve the ability of the APP to diagnose epilepsy and neuromuscular disorders. The session will conclude with an interactive round table discussion to review the current white paper addressing the neurology APP.

This program complements C140: Clinical Neurology for Advanced Practice Providers I, but covers independent topics.

Upon Completion:

Participants should be able to recognize and diagnose patients with neuromuscular disorders and epilepsy, and gain knowledge of the current state of integration of the neurology APP into clinical practice.

Lecture/Faculty:

- ▶ Approach to the Patient with Neuromuscular Diseases
Miriam L. Freimer, MD, Columbus, OH
- ▶ Approach to the Patient with Seizures
Joseph I. Sirven, MD, FAAN, Phoenix, AZ
- ▶ Interactive Round Table: Neurology Advanced Practice Providers
Cynthia L. Comella, MD, FAAN, Chicago, IL
Jessica Erfan, PA-C, Austin, TX
Miriam L. Freimer, MD, Columbus, OH
Joseph I. Sirven, MD, FAAN, Phoenix, AZ

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Audience Participation, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Non-Neurologist, Advanced Practice Providers

Wednesday, April 20, 2016 1:00 p.m.–5:00 p.m.

C234 The Most Important Tool in Your Black Bag: Gallup StrengthsFinder™ Assessment II (registration required)

Topic: Practice/Policy;
Research Methodology, Education, and History

Directors: Keri Bischoff, Senior Consultant,
Anderson & Bischoff Strengths Consulting, St. Paul, MN
Julie Anderson, Senior Consultant,
Anderson & Bischoff Strengths Consulting, St. Paul, MN

Program Description:

"A leader needs to know his strengths as a carpenter knows his tools, or a physician knows the instruments at her disposal." — Donald Clifton In this customized half-day workshop two Gallup Certified consultants will share a language for understanding your unique strengths, which has powerful application for well-being and happiness.

Using the science behind the StrengthsFinder™ assessment we'll discover your top five talent themes, and a positive language to leverage what's right. We'll share ways this approach can change the culture of your organization through engagement, which leads to increased productivity, patient satisfaction, and peer understanding.

Gallup research reveals that in health care, relationships are key. How can we optimize communication skills? To patients, feelings are facts: how do you relate to others, and how do others experience you? Do you know?

On-line assessment code available prior to workshop. Customized materials provided.

Upon Completion:

Actionable, customized insight in to your own unique Strengths, leading to greater well-being. Awareness of individual and team communication styles in personal and organizational contexts.

Course Descriptions

Practice/Policy

Lecture/Faculty:

- ▶ Foundation of Gallup StrengthsFinder™ Philosophy
Keri Bischoff, St. Paul, MN
- ▶ Applying Strengths Personally and Professionally
Julie Anderson, St. Paul, MN
- ▶ Organizational Application
Keri Bischoff, St. Paul, MN
- ▶ Communication, Strengths and Misperceptions
Julie Anderson, St. Paul, MN

Core Competencies: Interpersonal and Communication Skills, Professionalism, Self-Awareness

Teaching Style: Case-Based, Didactic

CME Credits: No CME

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advance Practice Provider

Thursday, April 21, 2016 6:30 a.m.–8:30 a.m.

C210 Non-Neuro-oncology Palliative Care

Topics: Pain and Palliative Care;
Practice/Policy

Director: Maisha T. Robinson, MD, MS, Jacksonville, FL

See complete course description on [page 111](#) »

Research Methodology, Education, and History

Friday, April 15, 2016 8:00 a.m.–12:00 p.m.

C1 Resident Basic Science I: Neuropathology

Topic: Research Methodology, Education, and History

Director: J. Clay Goodman, MD, FAAN, Houston, TX

Program Description:

Neuropathology is a rapidly and continuously evolving discipline encompassing basic, translational, and clinical neuroscience. A thorough understanding of the basics of neuropathology permits much deeper insight into mechanisms and manifestations of neurologic disease and provides a basis for more complete understanding of neuroimaging and laboratory studies. Faculty will provide a fast-paced, visually oriented overview of central nervous system neuropathology including tumors, demyelinating diseases, infections, cerebrovascular disease, toxic/metabolic conditions, neurotrauma, and neurodegenerative disease. The images shown during the program will be contained in the slide and written syllabi which will also contain substantial supplementary material.

This program complements C10: Resident Basic Science II: Neuroanatomy and C40: Resident Basic Science III: Neuropharmacology, but covers independent topics.

Upon Completion:

Participants should be able to recognize common gross, histological, and molecular features of central nervous system disorders, and be able to understand cellular and gross neuropathology in relationship to neurologic disease mechanisms, diagnosis, progression, laboratory studies, and imaging.

Lecture/Faculty:

- ▶ Increased Intracranial Pressure, Tumors, and Vascular Disease
J. Clay Goodman, MD, FAAN, Houston, TX
- ▶ Demyelinating, Toxic/Metabolic, Traumatic, and Infectious Disorders
J. Clay Goodman, MD, FAAN, Houston, TX
- ▶ Neurodegenerative Diseases
Matthew D. Cykowski, MD, Houston, TX

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 3.75

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Friday, April 15, 2016 8:00 a.m.–3:00 p.m.

C2 Clerkship and Program Directors Conference

Topic: Research Methodology, Education, and History

Director: Madhu Soni, MD, Chicago, IL

Program Description:

The advent of technology has brought with it increased efficiency, ease of information sharing, and in the case of the electronic medical record (EMR), enhanced compliance with billing regulations. Students and residents in training are expected to develop the skills of documentation in the EMR as practicing physicians. However, policy and practice across institutions vary in regards to access and training in EMR use and avoidance of misuse. Telemedicine is also gaining in popularity and many insurers are requesting physicians to provide telemedicine consultations. However, there are currently no national guidelines for a teleneurology curriculum in residency programs. Through presentation of current practice, potential pitfalls, ethical and legal implications, faculty will facilitate discussion about the use of technological advances and the responsibility for educators to provide appropriate training in order to ensure competency, particularly in the use of the EMR and telemedicine.

Upon Completion:

Participants should be able to identify pitfalls and trainee misuse of the EMR and provide remedies to these problems, and incorporate teleneurology training in the curriculum for neurology trainees.

Lecture/Faculty:

- ▶ Welcome and Introduction
Holli Ann Horak, MD, FAAN, Tucson, AZ
Madhu Soni, MD, Chicago, IL

- ▶ **Purpose, Ethics, and Laws of EMR Documentation**
David Satin, MD, Minneapolis, MN
- ▶ **Common EMR Misuses: Teaching Moment**
Allison L. Weathers, MD, FAAN, Chicago, IL
- ▶ **Developments in Teleneurology**
Bart M. Demaerschalk, MD, MSc, FRCPC, Phoenix, AZ
- ▶ **Training Trainees in Teleneurology: A Practical Approach**
Scott Vota, DO, Glen Allen, VA
- ▶ **AAN Teleneurology Task Force: Update on Curriculum Guidelines**
Raghav Govindarajan, MD, Columbia, MO
- ▶ **Clerkship Directors Breakout Session: EMR Compliance and Legalities in Medical Education**
David Satin, MD, Minneapolis, MN
- ▶ **Program Directors Breakout Session: Web-based Milestones Evaluation Tool**
David K. Urion, MD, FAAN, Boston, MA
- ▶ **Clerkship Directors Breakout Session: Incorporating the EMR into Medical Education—Ongoing Challenges and Potential Opportunities**
Charlene Gamaldo, MD, FAAN, Baltimore, MD
Karthik Rao, Baltimore, MD
Rachel Marie E. Salas, MD, Baltimore, MD
Jeremy Tanner, Baltimore, MD
- ▶ **Program Directors Breakout Session: Patient Safety: See It, Do It, Teach It**
Adam Webb, MD, Decatur, GA
- ▶ **Clerkship Directors Breakout Session: EMR Use—Medical Student Perspective**
Faculty

Core Competency: Interpersonal and Communication Skills, Professionalism

Teaching Style: Case Based, Didactic, Interactive

CME Credits: 6.5

Recommended Audience: Trainee, Clerkship and Program Directors



“I love the availability of the free courses and the ITALKS. In particular I liked the ITALK Quick Neuro Exam. An Integrated Neuroscience Session—I10: The Dynamic Brain in Health and Disease:

Plasticity and Reprogramming—I attended was amazing and inspiring to see.”

Eric Gutglueck, Rancho Cucamonga, CA

Friday, April 15, 2016

8:00 a.m.–5:00 p.m.

C4 **CR \$ Research Career Development Symposium: How to Be Successful in Academic Neuroscience** (registration required)

Topic: Research Methodology, Education, and History

Directors: Conrad Weihi, MD, PhD, Webster Groves, MO
Jaishri Blakeley, MD, Baltimore, MD

Program Description:

This program will provide information to early stage neurologists who are embarking on an academic career in neurological research with a focus on acquiring a career development award. Didactic lectures and small group sessions will focus on preparing for competitive grant submissions to the NIH, major foundations, and the American Brain Foundation, as well as core principles of publishing impactful reports, academic career development, and productive mentor-mentee relationships. Attendees will receive information critical to their transition from residency, fellowship, and early faculty to investigative independence in academic neurology. In order to facilitate the mentoring sessions, attendees are asked to identify their interest in basic or clinical research and their specific area of interests for research.

Upon Completion:

Participants should gain essential information about the core components of a successful K award application and other mentored career development grants; developing and maintaining productive mentor-mentee relationships; guidelines for development of a successful research career (finding the right question); strategies for successful scientific writing and suggestions for addressing the competing demands that are common at the start of an academic career.

Lecture/Faculty:

- ▶ **Keynote Address: Academic Neurology in the Balance**
Bruce R. Ransom, MD, PhD, FAAN, Seattle, WA
- ▶ **Researcher Stories: K08 and K23 Awardees**
Holly E. Hinson, MD, Portland, OR
- ▶ **Essentials of a K Application**
Faculty
- ▶ **Kiss of Death**
Gregory K. Bergey, MD, FAAN, Baltimore, MD
- ▶ **Working Lunch: Strategies for Scientific Communication**
Robert A. Gross, MD, PhD, FAAN, Rochester, NY
- ▶ **Working for Your Department and Chair**
Faculty
- ▶ **Chairperson Panel**
Allison Brashear, MD, MBA, FAAN, Winston Salem, NC
Bruce R. Ransom, MD, PhD, FAAN, Seattle, WA

Course Descriptions

Research Methodology, Education, and History

► Breakout Session A and B: Mentor-led Discussion

Jaishri Blakeley, MD, Baltimore, MD
Myla Goldman, MD, Charlottesville, VA
Peter K. Todd, MD, PhD, Ann Arbor, MI
Conrad Wehl, MD, PhD, Webster Groves, MO

► Pulling it All Together

Jaishri Blakeley, MD, Baltimore, MD
Myla Goldman, MD, Charlottesville, VA
Peter K. Todd, MD, PhD, Ann Arbor, MI
Conrad Wehl, MD, PhD, Webster Groves, MO

Core Competency: Professionalism

Teaching Style: Didactic, Interactive, Audience Participation, Small Groups

CME Credits: 8.0

Recommended Audience: Trainee, Clinician Scientist Applying for Mentored Career Development Awards

Friday, April 15, 2016

9:00 a.m.–5:00 p.m.

C5 Women in Leadership (registration required)

Topics: Practice/Policy;
Research Methodology, Education, and History

Directors: Cynthia L. Comella, MD, FAAN, Chicago, IL
Barbara L. Hoese, President, Penticore Coaching,
Minneapolis, MN

See complete course description on [page 111](#) »

Friday, April 15, 2016

1:00 p.m.–3:00 p.m.

C8 Clinical Research: Introduction and Methods

Topic: Research Methodology, Education, and History

Director: Deborah Hall, MD, PhD, Chicago, IL

Program Description:

The complex building of current clinical research continues to stand on three methodological pillars: the clinical trial, the cohort study, and the case-control study. These three methods, along with their combinations and modifications, enable us to investigate any possible cause-effect relationship across 1) biological, personal, or social factors or events, 2) symptoms, diseases, or conditions, and 3) treatments, procedures, or interventions. This program provides a brief introduction to the three methods with emphasis on their complementarities and their relative strengths and weaknesses.

This program complements C14: Clinical Research: Drug Development and Clinical Trials, but covers independent topics.

Upon Completion:

Participants should have a better understanding of how evidence is generated and disseminated in clinical neurology; improve their ability

to design, conduct, and interpret studies; and improve their ability to write and read scientific papers and grant applications.

Lecture/Faculty:

- **Introduction to Study Design**
Deborah Hall, MD, PhD, Chicago, IL
- **Clinical Trials**
Michael G. Benatar, MBChB, DPhil, FAAN, Miami, FL
- **Cohort Studies**
Alexander Pantelyat, MD, Baltimore, MD
- **Case-control Studies**
Deborah Hall, MD, PhD, Chicago, IL

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Professionalism

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee

Friday, April 15, 2016

1:00 p.m.–5:00 p.m.

C10 Resident Basic Science II: Neuroanatomy

Topic: Research Methodology, Education, and History

Director: Ralph F. Jozefowicz, MD, FAAN, Rochester, NY

Program Description:

This course will present an organized and succinct overview of neuroanatomy. First, regional neurosciences will consider the organization and relationships of the specific regional zones of the nervous system. Second, systemic neurosciences will consider the functional systems, including the motor and sensory systems. These regional and systemic approaches reflect the need to obtain a firm background for the localization of problems in the nervous system (regional) and for accurate assessment of the nervous system in the neurological examination (systemic).

This program will discuss regional neuroanatomy, including the telencephalon, diencephalon, brain stem, spinal cord and peripheral nervous system; the motor system, including lower motor neurons, the corticospinal tract, the extrapyramidal system, the corticobulbar tract, cerebellum, and basal ganglia; and the sensory system, including somatosensory, trigeminal sensory, taste and visceral sensation, the auditory system, the vestibular system, and the visual system.

This program complements C1: Resident Basic Science I: Neuropathology and C40: Resident Basic Science III: Neuropharmacology, but covers independent topics.

Upon Completion:

Participants should be able to refresh their knowledge of neuroanatomy, including the vocabulary, the basic organization and connections, and the hierarchical relationships between major structures in the central and peripheral nervous systems. Participants should be able to better localize lesions along the neuraxis, which is the key to neurologic diagnosis.

Lecture/Faculty:

- ▶ **Regional Neuroanatomy**
Ralph F. Jozefowicz, MD, FAAN, Rochester, NY
- ▶ **Systemic Neuroanatomy 1: Motor System**
Ralph F. Jozefowicz, MD, FAAN, Rochester, NY
- ▶ **Systemic Neuroanatomy 2: Sensory System**
Ralph F. Jozefowicz, MD, FAAN, Rochester, NY
- ▶ **Systemic Neuroanatomy 3: Special Senses**
Ralph F. Jozefowicz, MD, FAAN, Rochester, NY

Core Competency: Medical Knowledge

Teaching Style: Didactic

CME Credits: 3.75

Recommended Audience: Trainee, Advanced Practice Providers

Friday, April 15, 2016

3:30 p.m.–5:30 p.m.

C14 Clinical Research: Drug Development and Clinical Trials

Topic: Research Methodology, Education, and History

Director: Wendy R. Galpern, MD, PhD, FAAN, Titusville, NJ

Program Description:

Translating scientific discoveries into effective therapeutics is a lengthy, costly, and challenging process, particularly in neuroscience. Academic, industry, and regulatory representatives will address challenges and opportunities in the treatment of neurological disorders and discuss decision points in the drug development process. Faculty also will facilitate a discussion with the attendees.

This program complements C8: Clinical Research: Introduction and Methods, but covers independent topics.

Upon Completion:

Attendees should have an increased understanding of the steps involved in drug discovery and development as well as the challenges inherent to each stage. Additionally, attendees will learn about clinical trial design considerations and regulatory perspectives.

Lecture/Faculty:

- ▶ **Early Stage Development: Decisions and Challenges**
Faculty
- ▶ **Late Stage Development: Decisions and Challenges**
Karl Kiebert, MD, FAAN, Rochester, NY
- ▶ **Clinical Trial Design Considerations**
Faculty
- ▶ **Regulatory Considerations**
Lei Xu, MD, Silver Spring, MD

Core Competency: Medical Knowledge

Teaching Style: Interactive, Audience Participation, Didactic

CME Credits: No CME

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Saturday, April 16, 2016

6:30 a.m.–8:30 a.m.

C22 Career Development for Clinician Educators

Topic: Research Methodology, Education, and History

Director: Allison Brashear, MD, MBA, FAAN, Winston Salem, NC

Program Description:

There is growing recognition of the need for clinician educators in academic neurology departments, but few resources offering guidance to individuals interested in this career path. Using lecture and case-based vignettes, faculty will address which departmental responsibilities to seek (e.g., residency program director, clerkship director, preclinical course director); other activities to pursue (e.g., multimedia educational resource development, clinical articles, book chapters, education research, participation in national organizations); how to be effective in those activities; and how to document educational productivity.

Upon Completion:

Participants should understand which activities and responsibilities in an academic neurology department are most likely to be productive for career development as a clinician educator, how to negotiate for those assignments and for the resources necessary to fulfill them, and how to document accomplishments and productivity.

Lecture/Faculty:

- ▶ **Planning for a Career in Medical Education**
Joseph E. Safdieh, MD, FAAN, New York, NY
- ▶ **Getting Hired and Promoted in Medical Education**
Allison Brashear, MD, MBA, FAAN, Winston Salem, NC
- ▶ **Career Case Studies in Medical Education: Getting Hired, Promoted, and Mentoring Others**
Faculty

Core Competencies: Interpersonal and Communication Skills, Professionalism, Systems-Based Practice

Teaching Style: Case Based, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Saturday, April 16, 2016

1:00 p.m.–5:00 p.m.

C40 Resident Basic Science III: Neuropharmacology

Topic: Research Methodology, Education, and History

Director: James W. M. Owens, Jr., MD, PhD, Seattle, WA

Program 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 basic pharmacological principles important for medication selection as well as facilitate an expanded understanding of the treatment of epilepsy,

Course Descriptions

Research Methodology, Education, and History

movement disorders, and sleep disorders. Presentations will include discussion of drug targets and mechanisms punctuated by illustrative cases.

This program complements C1: Resident Basic Science I: Neuropathology and C10: Resident Basic Science II: Neuroanatomy, but covers independent topics.

Upon Completion:

Participants should be able to discuss basic pharmacological concepts relevant to the clinical practice of neurology as well as an approach to medication selection for patients with epilepsy, movement disorders, and sleep disorders based on an understanding of pharmacological mechanisms of action and pharmacokinetics.

Lecture/Faculty:

- ▶ **Overview of Neuropharmacology**
James W. M. Owens, Jr., MD, PhD, Seattle, WA
- ▶ **Neuropharmacology of Epilepsy**
Atul Maheshwari, MD, Houston, TX
- ▶ **Neuropharmacology of Parkinson Disease**
Joohi Jimenez Shahed, MD, Houston, TX
- ▶ **Neuropharmacology of Neuropsychiatry**
James W. M. Owens, Jr., MD, PhD, Seattle, WA

Core Competency: Medical Knowledge

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 3.75

Recommended Audience: Trainee, General Neurologist, Non-Neurologist, Advanced Practice Providers

Sunday, April 17, 2016 3:30 p.m.–5:30 p.m.

C93 Education Research Program

Topic: Research Methodology, Education, and History

Director: Stuart Lubarsky, MD, Montreal, QC, Canada

Program information not available at time of print, please refer to AAN.com/view/SearchAM for the most up to date information.

Monday, April 18, 2016 1:00 p.m.–3:00 p.m.

C112 Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients I

Topic: Practice/Policy;
Research Methodology, Education, and History

Director: Gary S. Gronseth, MD, FAAN, Kansas City, KS

See complete course description on [page 116](#) »

Monday, April 18, 2016

1:00 p.m.–3:00 p.m.

C113 Humanism in Medicine, Humanizing Medicine, and the Role of Education

Topic: Research Methodology, Education, and History

Director: Daniel L. Menkes, MD, FAAN, Royal Oak, MI

Program Description:

With increasing technology and concern for work-life balance in medicine, trainees in medicine in general are not always taught to spend time with patients to get to know them and their lives. The importance of physician-patient relationships for humanism in health care goes beyond the scores from post-visit surveys. Patients and physicians benefit from humanistic approach to healthcare: relationships that are respectful and compassionate, sensitive to values and cultural/ethnic backgrounds. The course will look at ways to teach humanism in neurology: compassion, empathy, altruism, respect, service, and integrity, hand and hand with clinical expertise.

Upon Completion:

Participants should be able to understand the importance of teaching humanism to neurology trainees and medical students, to improve the care of neurological patients. Participants should be able to begin to identify local resources that might help to enhance humanism training locally.

Lecture/Faculty:

- ▶ **Presentation of A.B. Baker Award for Lifetime Achievement in Neurologic Education to Allan H. Ropper, MD, FAAN**
Daniel L. Menkes, MD, FAAN, Royal Oak, MI
- ▶ **A.B. Baker Lifetime Achievement in Neurologic Education Award Winner Lecture**
Allan H. Ropper, MD, FAAN, Boston, MA
- ▶ **The Humanism Dilemma**
Laurie Gutmann, MD, FAAN, Iowa City, IA
- ▶ **Plenary and Interactive Workshop – Humanism in Medicine, Humanizing Medicine, and the Role of Education**
Daniel H. Lowenstein, MD, San Francisco, CA
Laurie Gutmann, MD, FAAN, Iowa City, IA
Ann N. Poncellet, MD, San Francisco, CA

Core Competency: Professionalism

Teaching Style: Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Educators



“Networking has been the best part of the Annual Meeting. Maybe I’m old-fashioned, but you go to a meeting to meet people!”

Michael Racke, MD, Columbus, OH

Monday, April 18, 2016 1:00 p.m.–5:00 p.m.

C115 Improving Your Leadership Skills: A Practical Approach (registration required)

Topics: Practice/Policy;
Research Methodology, Education, and History

Directors: Terrence L. Cascino, MD, FAAN, Rochester, MN
Ralph L. Sacco, MD, MS, FAHA, FAAN, Miami, FL

See complete course description on [page 117](#) »

Monday, April 18, 2016 3:30 p.m.–5:30 p.m.

C126 Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients II

Topic: Practice/Policy;
Research Methodology, Education, and History

Director: Gary S. Gronseth, MD, FAAN, Kansas City, KS

See complete course description on [page 117](#) »

Tuesday, April 19, 2016 1:00 p.m.–3:00 p.m.

C150 Recent History: Shapers of Modern Neurology I

Topic: Research Methodology, Education, and History

Director: Stephen G. Reich, MD, FAAN, Baltimore, MD

Program Description:

This history of neurology course (I and II) will review the careers and contributions of some of the most prominent and influential neurologists of the 20th century. Subjects to be discussed (and their presenters) include: Dr. C. David Marsden (by Dr. Stan Fahn); Dr. C. Miller Fisher (by Dr. Louis Caplan); Dr. Norman Geschwind (by Dr. Francois Boller); Dr. Raymond Adams (by Dr. Allan Ropper); and Dr. Fred Plum (by Dr. Jerome Posner). The faculty will discuss the unique leadership styles of each subject, how they shaped the landscape of Neurology during their lifetime as well as their legacy.

This program complements C164: Recent History: Shapers of Modern Neurology II, but covers independent topics.

Upon Completion:

Participants should be familiar with the career paths and contributions of some of the neurologic luminaries of the last century including Drs. David Marsden, Dr. C. Miller Fisher, Dr. Norman Geschwind, Dr. Raymond Adams and Dr. Fred Plum as well as how they shaped Neurology during their own lifetimes and their lasting influence.

Lecture/Faculty:

- ▶ Dr. C. David Marsden
Stanley Fahn, MD, FAAN, New York, NY

- ▶ Dr. C. Miller Fisher
Louis R. Caplan, MD, FAAN, Boston, MA

- ▶ Dr. Norman Geschwind
Francois Boller, MD, PhD, FAAN, Washington, DC

Core Competency: Medical Knowledge

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Tuesday, April 19, 2016 1:00 p.m.–5:00 p.m.

C233 The Most Important Tool in Your Black Bag: Gallup StrengthsFinder™ Assessment I (registration required)

Topic: Practice/Policy;
Research Methodology, Education, and History

Directors: Keri Bischoff, Senior Consultant,
Anderson & Bischoff Strengths Consulting, St. Paul, MN
Julie Anderson, Senior Consultant,
Anderson & Bischoff Strengths Consulting, St. Paul, MN

See complete course description on [page 118](#) »

Tuesday, April 19, 2016 3:30 p.m.–5:30 p.m.

C164 Recent History: Shapers of Modern Neurology II

Topic: Research Methodology, Education, and History

Director: Stephen G. Reich, MD, FAAN, Baltimore, MD

Program Description:

This history of neurology course (I and II) will review the careers and contributions of some of the most prominent and influential neurologists of the 20th century. Subjects to be discussed (and their presenters) include: Dr. C. David Marsden (by Dr. Stan Fahn); Dr. C. Miller Fisher (by Dr. Louis Caplan); Dr. Norman Geschwind (by Dr. Francois Boller); Dr. Raymond Adams (by Dr. Allan Ropper); and Dr. Fred Plum (by Dr. Jerome Posner). The faculty will discuss the unique leadership styles of each subject, how they shaped the landscape of Neurology during their lifetime as well as their legacy.

This program complements C150: Recent History: Shapers of Modern Neurology I, but covers independent topics.

Upon Completion:

Participants should be familiar with the career paths and contributions of some of the neurologic luminaries of the last century including Drs. David Marsden, Dr. C. Miller Fisher, Dr. Norman Geschwind, Dr. Raymond Adams and Dr. Fred Plum as well as how they shaped Neurology during their own lifetimes and their lasting influence.

Lecture/Faculty:

- ▶ Anita Harding, MD
Faculty

Course Descriptions

Research Methodology, Education, and History

► Raymond Adams, MD
Allan H. Ropper, MD, FAAN, Boston, MA

Core Competency: Medical Knowledge

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Wednesday, April 20, 2016 1:00 p.m.—5:00 p.m.

C234 The Most Important Tool in Your Black Bag: Gallup StrengthsFinder™ Assessment II (registration required)

Topic: Practice/Policy;
Research Methodology, Education, and History

Directors: Keri Bischoff, Senior Consultant,
Anderson & Bischoff Strengths Consulting, St. Paul, MN
Julie Anderson, Senior Consultant,
Anderson & Bischoff Strengths Consulting, St. Paul, MN

See complete course description on [page 119 »](#)

Sleep

Saturday, April 16, 2016 6:30 a.m.—8:30 a.m.

C16 How to Interpret Sleep Studies

Topic: Sleep

Director: Charlene Gamaldo, MD, FAAN, Baltimore, MD

Program Description:

Neurologists increasingly order sleep studies, which requires familiarity with the type of studies available and when and how to order specialized studies. The objective of this course is to review the type of procedures currently available for the evaluation and management of sleep disorders, focusing specifically on those sleep conditions commonly encountered by neurologic patients. Faculty will discuss the interpretation of sleep tests, including in-laboratory polysomnography, portable sleep studies, multiple sleep latency tests, actigraphy, and other specialized sleep testing for patients with parasomnias. Faculty will focus on indications for sleep testing; interpretation of tests; and key electrographic findings in major sleep disorders encountered in neurology practice, including sleep apnea, narcolepsy, movement disorders of sleep, and complex nocturnal behaviors. An interactive platform will be used, with examples of sleep recordings to help illustrate and reinforce the important concepts in sleep neurology.

Upon Completion:

Participants should be able to gain familiarity with the rationale for polysomnography in the assessment and evaluation of patients with hypersomnia, insomnia, and abnormal nocturnal behaviors and movements; select appropriate sleep studies in the investigation of key sleep disorders; become familiar with the key electrographic criteria for

sleep apnea, narcolepsy, motor disorders of sleep, and parasomnias; describe and differentiate among the key sleep-related respiratory disorders, parasomnias, and sleep-related movement disorders likely to be encountered by a neurologist; enhance competency in the interpretation of the polysomnography and multiple sleep latency testing in the evaluation of narcolepsy and become familiar with the use of actigraphy in the monitoring of sleep-wake schedule disorders; strengthen clinical skills in the recognition and classification of abnormal behaviors and movements during the night through polysomnographic examples highlighting unique semiology; and appreciate some of the criteria listed in the International Classification of Sleep Disorders, the American Academy of Sleep Medicine (AASM) Manual for the Scoring of Sleep in the diagnosis of key sleep disorders including sleep apnea, narcolepsy, motor disorders of sleep, and parasomnias.

Lecture/Faculty:

- Everything a PSG Can Provide a Practicing Neurologist
Charlene Gamaldo, MD, FAAN, Baltimore, MD
Rachel Marie E. Salas, MD, Baltimore, MD
- The Value of Sleep Diagnostic Procedures Beyond the PSG for the Practicing Neurologist
Charlene Gamaldo, MD, FAAN, Baltimore, MD
Rachel Marie E. Salas, MD, Baltimore, MD

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Systems-Based Practice

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist

Sunday, April 17, 2016 6:30 a.m.—8:30 a.m.

C68 REM Sleep Behavior Disorder

Topic: Sleep

Director: Alon Y. Avidan, MD, MPH, FAAN, Los Angeles, CA

Program Description:

Neurologists frequently encounter patients with dream enactment behavior in the setting of Rapid Eye Movement (REM) Sleep Behavior Disorder (RBD). Recent data reveals that in the majority of cases, RBD may be a prognostic indicator of alpha-synucleinopathies. Faculty will present the tools needed to recognize, diagnose, and treat RBD, respecting both the clinical and scientific perspectives of the disease, while maintaining sensitivity to the psychosocial impact from a patient's perspective. The unique aspect of this educational session is the integration of a patient with RBD. Discussion will focus on the initial presentation of violent dream enactment and impact on quality of life. Participants will be able to appreciate the extent of potentially injurious behaviors impacting these patients. The integration of a live patient will offer attendees a new perspective in employing interview techniques of patients with RBD and their bed-partners.

Upon Completion:

Participants should be able to improve participants' confidence in recognizing the presenting signs and symptoms of REM sleep behavior disorder; use the patient perspective to become better equipped with strategies for improved recognition of the impact of RBD, becoming aware with an initial attempt to cope with aggressive dream enactment to successful amelioration of the episodes with specific therapy; use the case presentation to enhance competency in RBD diagnostic criteria, differential diagnosis, pathophysiology, and evidence based therapy, especially with respect to safety intervention and prognostic implication; describe the prognostic value of RBD, discuss the condition with patients and family members, and disclose its implication in a supportive manner.

Lecture/Faculty:

- ▶ **REM Sleep Behavior Disorder: Patient Interview, Clinical Features, Diagnosis, and Treatment**
Alon Y. Avidan, MD, MPH, FAAN, Los Angeles, CA
- ▶ **Pathophysiology & Current Understanding of RBD**
Bradley F. Boeve, MD, Rochester, MN

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case Based, Interactive, Audience Participation, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Sleep Physicians

Monday, April 18, 2016 1:00 p.m.–3:00 p.m.

C111 Sleep for the Practicing Neurologist I: Can't Fall Asleep-Insomnia, RLS and Related Disorders

Topic: Sleep

Director: Michael J. Howell, MD, FAAN, Minneapolis, MN

Program Description:

Insomnia is challenging and common. Nearly 30 percent of the adult population will have at least intermittent difficulty falling asleep this year. Recent discoveries have highlighted the cognitive impairment that arises from insomnia and have demonstrated that it can be a biomarker for future neuropsychiatric disorders. Understandably, many clinicians are hesitant to prescribe sleeping medications and have little experience with Cognitive Behavioral Therapy for Insomnia (CBT-I).

RLS (also known as Willis-Ekbom Disease) frequently presents as difficulty initiating sleep and is common among nearly all categories of neurological disease. RLS symptoms range from a minor nuisance to suicidal discomfort.

Faculty will provide clinically relevant strategies to manage the patient with trouble falling asleep and provide an up-to-date review on RLS.

This program complements C125: Sleep for the Practicing Neurologist II: Sleep Duration, CNS Hypersomnias, and Treating Physician Fatigue, but covers independent topics.

Upon Completion:

Participants should become familiar with the common disorders that complicate the management of patients who have trouble falling asleep and be able, with just a few simple questions, to help distinguish these disorders and initiate proper therapy. In addition, attendees will learn new insights on how insomnia predicts future neuropsychiatric impairment and the link between RLS and brain pathology.

Lecture/Faculty:

- ▶ **Dreaming of Somnolence: A Neurologists Guide to Falling Asleep**
Michael J. Howell, MD, FAAN, Minneapolis, MN
- ▶ **Not Just Restless, Not Just Legs: Assessing the Mysteries of Willis-Ekbom Disease in Neurological Disorders**
Brandon R. Peters, MD, Novato, CA

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Advanced Practice Providers

Monday, April 18, 2016 3:30 p.m.–5:30 p.m.

C125 Sleep for the Practicing Neurologist II: Sleep Duration, CNS Hypersomnias, and Treating Physician Fatigue

Topic: Sleep

Director: Michael J. Howell, MD, FAAN, Minneapolis, MN

Program Description:

An adequate volume of sleep is important for brain health. The American Academy of Sleep Medicine recently released a consensus statement regarding ideal sleep durations in adults. Its president, who led the panel that published these findings, will present his work on this topic and provide an up-to-date review on the identification and management of patients with CNS hypersomnias. Finally, good sleep is not incompatible with being a physician. It is as important for ourselves as it is for our patients. Poor sleep is linked to poor clinical performance, burnout, and motor vehicle accidents. Faculty will review some straightforward strategies for improving your own sleep and being more alert for your patients.

This program complements C111: Sleep for the Practicing Neurologist I: Can't Fall Asleep-Insomnia, RLS and Related Disorders, but covers independent topics.

Upon Completion:

Participants should be able to define the adequate duration of sleep and how these volumes were discovered, learn how to properly diagnose and treat patients with CNS hypersomnias, learn how physician fatigue affects clinical performance, and discover a few tips on how to better improve their own sleep.

Lecture/Faculty:

- ▶ Clinical Presentation and Care for Patients with CNS Hypersomnias
Nathaniel F. Watson, MD, Seattle, WA
- ▶ Practice What You Preach: A Look at the Impact of Sleepiness and Fatigue on the Practicing Neurologist
Charlene Gamaldo, MD, FAAN, Baltimore, MD

Core Competencies: Medical Knowledge, Patient Care, Practice-Based Learning and Improvement

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Advanced Practice Providers

Tuesday, April 19, 2016 6:30 a.m.–8:30 a.m.

C127 ^{SIF} Sleep Across the Lifecycle: What Neurologists Need to Know

Topics: Sleep;
Subspecialty in Focus

Director: Michael J. Howell, MD, FAAN, Minneapolis, MN

Program Description:

Sleep is fascinating. By the time an individual lives to the age of 78, he or she will have spent 26 years of life in a state of purposeful unconsciousness. Recent discoveries have demonstrated that healthy sleep is critically important for early brain development and appears to ward off neuro-degeneration. Faculty will provide a two-hour overview of sleep across the lifecycle and discuss normal age-related changes in sleep physiology as well as review the challenges and opportunities in diagnosing and treating sleep disorders. These lectures will be clinically relevant with up-to-date summaries of these fascinating conditions.

This program is offered in partnership with the Sleep Section.

Upon Completion:

Participants should be able to recognize the evolution of sleep duration as we age; become familiar with the function of sleep at different stages of life; better understand sleep disorders and their management; and learn how to better educate patients on the importance of treating sleep and circadian disorders.

Lecture/Faculty:

- ▶ From Tots to Teens: Ontogeny, Specific Disorders and Challenges
Suresh Kotagal, MD, FAAN, Rochester, MN
- ▶ Sleep in Adults: College, Parenthood, Retirement and Beyond
Michael J. Howell, MD, FAAN, Minneapolis, MN

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist

Tuesday, April 19, 2016

1:00 p.m.–3:00 p.m.

C145 Circadian Rhythm Disorders

Topic: Sleep

Director: Phyllis C. Zee, MD, PhD, Chicago, IL

Program Description:

Sleep and circadian rhythm disturbances are pervasive in patients with neurological disorders. Given the ubiquitous influence of circadian rhythms on nearly all biological processes, consideration of the influence of circadian dysregulation on the expression and treatment of sleep-wake and co-morbid neurological disorders is highly relevant to clinical neurology. This course will review the recent advances in our understanding of circadian science and discuss how dysregulation due to disease or environmental factors contribute to circadian rhythm sleep-wake disorders, such as advanced and delayed sleep phase, non-24 hour and irregular sleep-wake rhythm disorders. In addition, both common and challenging cases will be used to apply circadian principles to the diagnosis and treatment of circadian disorders.

Upon Completion:

Participants should be able to appreciate the role of circadian rhythms in neurologic health and disease, have insights into potential roles for incorporating such information into the clinic, and apply circadian based principles to the diagnosis and treatment of circadian rhythm sleep-wake disorders.

Lecture/Faculty:

- ▶ Regulation of Circadian Rhythms
Phyllis C. Zee, MD, PhD, Chicago, IL
- ▶ Slightly Out of Step—Advanced and Delayed Sleep Wake Phase Disorders
Bradley V. Vaughn, MD, FAAN, Chapel Hill, NC
- ▶ Circadian Dysregulation in Neurologic Disease
Aleksandar Videnovic, MD, MSc, Boston, MA
- ▶ Challenging Cases
Phyllis C. Zee, MD, PhD, Chicago, IL

Core Competency: Medical Knowledge, Patient Care

Teaching Style: Case Based, Didactic, Interactive

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Thursday, April 21, 2016 6:30 a.m.–8:30 a.m.

C208 Approach to Sleep Symptoms: Sleepy or Sleepless

Topic: Sleep

Director: Raman K. Malhotra, MD, St. Louis, MO

Program Description:

Sleep medicine is an integral part of clinical neurology, and neurologists should play a pivotal role in the evaluation and

management of patients with sleep complaints. Many patients with neurological diseases also have sleep disorders that present as excessive daytime sleepiness, insomnia, or disrupted sleep at night. Addressing the underlying sleep disorder not only improves quality of life, but many times improves the underlying neurological condition. Faculty will provide knowledge needed to recognize and manage key sleep disorders, including obstructive sleep apnea, narcolepsy, idiopathic hypersomnia, insomnia, restless legs syndrome, and circadian rhythm disorders.

Upon Completion:

Participants should be able to develop strategies for diagnosis and assessment of patients with sleep complaints (hypersomnia, insomnia) likely to be encountered by neurologists; become familiar with commonly used screening tools and diagnostic tests (multiple sleep latency tests, actigraphs, out-of-center testing, attended overnight sleep studies) used in sleep medicine; and be able to manage and treat common sleep disorders, such as restless legs syndrome, narcolepsy, insomnia, sleep apnea, and circadian rhythm disorders.

Lecture/Faculty:

- ▶ **Evaluation and Management of the Sleepy Patient**
Raman K. Malhotra, MD, St. Louis, MO
- ▶ **Evaluation and Management of the Sleepless Patient**
Faculty

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Case Based, Didactic, Interactive, Audience Participation

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist, Non-Neurologist, Advanced Practice Providers

Thursday, April 21, 2016 1:00 p.m.–3:00 p.m.

C218 Hot Topics in Sleep Neurology I

Topic: Sleep

Director: Erik K. St. Louis, MD, FAAN, Rochester, MN

Program Description:

The understanding of sleep disorders is advancing rapidly. Due to the intimate relationship between sleep and brain disorders, neurologists managing patients with sleep disorders should familiarize themselves with new hot topics in sleep medicine. Faculty will explore five areas in which there is exciting progress in understanding and managing sleep disorders. Faculty will cover the role of the multiple sleep latency test in the diagnosis of hypersomnias, recent progress on solving the age-old riddle of why we sleep, the relationship between auto-immune disorders and sleep pathologies, current concepts of parasomnias, and the management of complex restless legs syndrome.

This program complements C229: Hot Topics in Sleep Neurology II, but covers independent topics.

Upon Completion:

Participants should have greater understanding of the role of the multiple sleep latency test, and the management of complex restless legs syndrome. Participants should understand better the reasons why we sleep. They should develop insights into diagnosis and management of parasomnias and auto-immune sleep disorders.

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Thursday, April 21, 2016 3:30 p.m.–5:30 p.m.

C229 Hot Topics in Sleep Neurology II

Topic: Sleep

Director: Erik K. St. Louis, MD, FAAN, Rochester, MN

Program Description:

The understanding of sleep disorders is advancing rapidly. Due to the intimate relationship between sleep and brain disorders, neurologists managing patients with sleep disorders should familiarize themselves with new hot topics in sleep medicine. Faculty will explore five areas in which there is exciting progress in understanding and managing sleep disorders. Faculty will cover the role of the multiple sleep latency test in the diagnosis of hypersomnias, recent progress on solving the age-old riddle of why we sleep, the relationship between auto-immune disorders and sleep pathologies, current concepts of parasomnias, and the management of complex restless legs syndrome.

This program complements C218: Hot Topics in Sleep Neurology I, but covers independent topics.

Upon Completion:

Participants should have greater understanding of the role of the multiple sleep latency test, and the management of complex restless legs syndrome. Participants should understand better the reasons why we sleep. They should develop insights into diagnosis and management of parasomnias and auto-immune sleep disorders.

Core Competencies: Interpersonal and Communication Skills, Medical Knowledge, Patient Care, Practice-Based Learning and Improvement, Professionalism, Systems-Based Practice

Teaching Style: Case Based, Didactic

CME Credits: 2.0

Recommended Audience: Trainee, General Neurologist, Specialist Neurologist

Visit the Exhibit Hall

Don't forget to stop by the Exhibit Hall to network and preview the latest products and services available in the neurologic industry.

Preliminary Scientific Schedule

The 2016 Scientific Program covers the spectrum of neurology—from updates on the latest diagnostic and treatment techniques to prevention strategies. Choose from more than 2,700 poster and platform presentations to build your ideal Annual Meeting science experience. Note: All dates, times, and program information are tentative. The full scientific program will be available in February 2016.

Friday, April 15

5:30 p.m.–7:00 p.m.

Hot Topics Plenary Session

Saturday, April 16

6:30 a.m.–8:30 a.m.

Scientific Platform Sessions

8:30 a.m.–7:00 p.m.

P1 Poster Session I

9:00 a.m.–11:00 a.m.

Contemporary Clinical Issues Plenary Session

11:30 a.m.–6:00 p.m.

Frontiers in Child Neurology: Cultivating Careers, Transitioning Care, and Highlighting Scientific Developments

1:00 p.m.–3:00 p.m.

Scientific Platform Sessions

1:00 p.m.–5:30 p.m.

I1  Redefining Parkinson's Disease: Novel Approaches to Understanding Its Mechanisms and Developing Treatments

I2 Stroke in the Elderly and Young: Challenges for the Next Decade

3:30 p.m.–5:30 p.m.

Scientific Platform Sessions

Sunday, April 17

6:30 a.m.–8:30 a.m.

Scientific Platform Sessions

8:30 a.m.–5:30 p.m.

P2 Poster Session II

9:00 a.m.–12:00 p.m.

Presidential Plenary Session

1:00 p.m.–3:00 p.m.

Scientific Platform Sessions

1:00 p.m.–5:30 p.m.

I3  New and Emerging Therapeutic Options in Migraine and Other Headache Disorders

I4 Advances in Acquired and Genetic Muscle Diseases

I5 Sex-related Factors in Neurological Disease

3:30 p.m.–5:30 p.m.

Scientific Platform Sessions

Monday, April 18

6:30 a.m.–8:30 a.m.

Scientific Platform Sessions

8:30 a.m.–7:00 p.m.

P3 Poster Session III

9:00 a.m.–11:30 a.m.

Controversies in Neurology Plenary Session

1:00 p.m.–3:00 p.m.

Scientific Platform Sessions

Section Topic Controversies

1:00 p.m.–5:30 p.m.

I6  Future Directions and Challenges in Stroke Team Action Therapy (STAT)

I7 The Human Connectome: Implications for Clinical Neurology

I8 Emerging Technologies for Neurological Research and Care: #Emerging-Tech #Neurologist @AAN

3:30 p.m.–5:30 p.m.

Scientific Platform Sessions



Tuesday, April 19

6:30 a.m.–8:30 a.m.

Scientific Platform Sessions

8:30 a.m.–7:00 p.m.

P4 Poster Session IV

9:00 a.m.–11:30 a.m.

Frontiers in Neuroscience Plenary Session

1:00 p.m.–3:00 p.m.

Scientific Platform Sessions
Section Topic Controversies

1:00 p.m.–5:30 p.m.

I9 Sleep, Clocks, and Alzheimer's Disease
I10 Remyelination and Repair in Multiple Sclerosis

3:30 p.m.–5:30 p.m.

Scientific Platform Sessions
Invited Science Session

Wednesday, April 20

6:30 a.m.–8:30 a.m.

Scientific Platform Sessions

8:30 a.m.–7:00 p.m.

P5 Poster Session V

9:00 a.m.–11:00 a.m.

Clinical Trials Plenary Session

1:00 p.m.–3:00 p.m.

Scientific Platform Sessions

1:00 p.m.–5:30 p.m.

I11 **SIF** Neurocritical Care and Neuroscience Crossroads:
From Bench To Bedside
I12 **SIF** Amyloid and Beyond: From Bench to Bedside

3:30 p.m.–5:30 p.m.

Scientific Platform Sessions
Invited Science Session

Thursday, April 21

6:30 a.m.–8:30 a.m.

Scientific Platform Sessions

8:30 a.m.–5:30 p.m.

P6 Poster Session VI

9:00 a.m.–11:30 a.m.

Neurology Year in Review Plenary Session

1:00 p.m.–3:00 p.m.

Scientific Platform Sessions
Section Topic Controversies

1:00 p.m.–5:30 p.m.

I13 **SIF** Sports-related Concussion:
Vision and Vestibular Insights
I14 Practical Approaches to Narrowing the Epilepsy
Treatment Gap

3:30 p.m.–5:30 p.m.

Scientific Platform Sessions



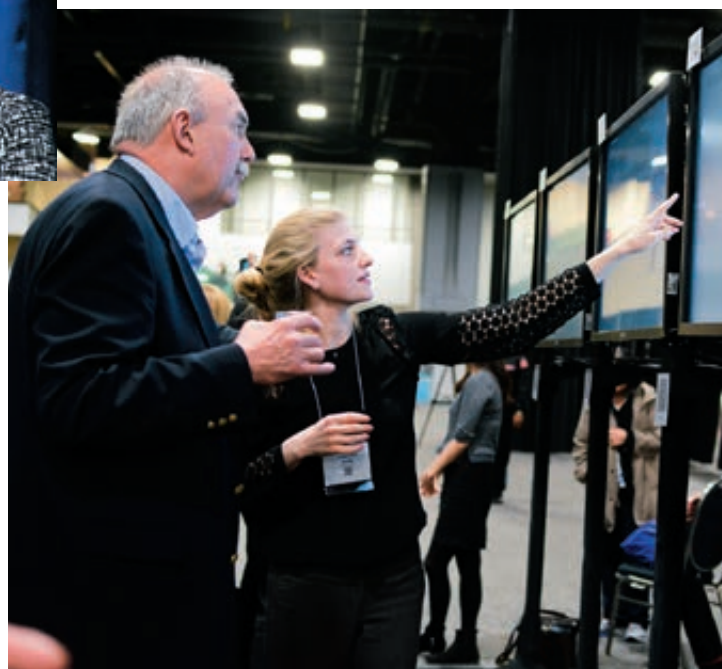
Experience Innovative Research—Every Day

The popular Scientific Program includes a variety of sessions covering hot topics, critical issues, and latest scientific highlights in addition to an anticipated 2,700+ cutting-edge abstracts presented in poster and platform sessions throughout the week.

Scientific Program Highlights:

- ▶ Seven plenary sessions—one each day, beginning on Friday evening
- ▶ Six poster sessions—one per day beginning Saturday
- ▶ Platform sessions—running throughout the day, each day, starting Saturday
- ▶ Integrated Neuroscience Session topics provide an in-depth look into research highlights around a subspecialty concentration
- ▶ Invited Science Sessions will highlight cutting-edge research presented at various neurology subspecialty conferences

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Highlights

Experience Unique Opportunities for Students, Residents, and Fellows

The AAN Annual Meeting offers a unique experience for students, residents, and fellows with boundless opportunities to get exposure to a variety of interests and career disciplines, and network with leading neurologists and neurology professionals from around the world.

Registration

FREE for Medical Students

Annual Meeting Registration is FREE to medical students, graduate students, and PhD candidates who present a student ID card or are AAN members. Sign up for an AAN complimentary student membership at AAN.com/view/membership.

Only \$245 for Junior Residents and Junior Fellows

Annual Meeting Registration is only \$245 (a more than \$800 savings from nonmember neurologist registration!) before the March 24, 2016, early registration deadline.

Gold Registration—Upgrade to Gold Registration to receive a copy of Annual Meeting On Demand.

See details and pricing on [page 6 »](#)

**Skills Workshops, Maintenance of Certification Exam Preparation Course, Between Venus and Mars: How Great Leadership Adopts Traits from the Best of Both Genders, Improving Your Leadership Skills: A Practical Approach, Women in Leadership, Research Career Development Symposium, The Most Important Tool in Your Black Bag: Gallup StrengthsFinder™ Assessment I & II, Continuum® Test Your Knowledge: A Multiple-choice Question Review I & II, Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients I & II, and Genomic Neurology Workshop: Developing Practical Knowledge of Tools and Concepts Through Case Studies I & II, are not included in the Annual Meeting registration price. These courses require pre-registration, may have a separate registration fee, and are subject to closure due to reaching maximum capacity.*

Volunteer Opportunities

Serve as a program monitor or a workshop volunteer (see [page 140 »](#)).

2016 Medical Student, Residents, and Fellows Guide

A detailed guide highlighting all events and opportunities of interest to Students, Residents, and Fellows will be available in December 2015.



New Faculty and Trainee Reception!

Saturday, April 16, 2016
6:00 p.m.–9:00 p.m.

Experience a unique place for undergraduate and graduate attendees to:

- Network with peers: Program/clerkship directors and coordinators, fellowship directors, residents, fellows, and medical students
- Find information about residency programs, on pursuing fellowships and/or careers in neurology academics, research, or practice
- Get recognized for their scholarships/awards



Opening Party

Experience New Ways to Connect and Thrive

Sunday, April 17 6:00 p.m.–10:00 p.m.



Neurobowl® 6:00 p.m.–8:00 p.m.

This popular event hosted by AAN former president Thomas R. Swift, MD, FAAN, is one of the Annual Meeting's premier happenings. Neurobowl showcases the best and brightest in neurology competing for the coveted Neurobowl trophy in an entertaining game-show format.

**Native Thunder Productions Presents
Story Telling Through Native Dancing** 8:15 p.m.–9:00 p.m.

Dressed in colorful, vibrant, handmade traditional clothing, Native Thunder Productions uses compelling dance, vocal, and drum performances to tell the story of their people, while a three-time world champion hoop dancer uses 22 hoops to tell a story of the creation of life.



Sixwire 8:45 p.m.–10:00 p.m.

Five veterans of touring, recording, and songwriting who adopted their name from the six-string guitar—a fitting tribute to the instrument around which their sound is based—will bring their unique pop-country-meets-classic-rock, high-energy show to the Annual Meeting. Since 2000, Sixwire has achieved chart success, made many television appearances—including regular spots on ABC's "Nashville"—and performed around the world with dozens of iconic musical stars.



AAN.com/view/AM16



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Connect at Social Events

Experience New Ways to Connect and Thrive at Social Events

There's no better way to combine an evening of great fun and entertainment with unparalleled networking than to experience the Opening Party, Closing Party Happy Hour—or both. Whether you attend the Annual Meeting at the beginning or the end, these exciting social events are not-to-be-missed.

Opening Party

Sunday, April 17, 6:00 p.m.–10:00 p.m.

Neurobowl®

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Exhibit Hall Opening Reception

Monday, April 18, 4:30 p.m.–6:30 p.m.

Attend the opening reception to mingle with fellow attendees and preview the latest products and services available in the neurologic industry. Light hors d'oeuvres and beverages will be served. The exhibits will be open at this time.

Run/Walk

Tuesday, April 19, 6:30 a.m.–8:30 a.m.

Support research in neurology and join us for a 5k run or one-mile walk along the stunning Vancouver waterfront. Both occasional and seasoned runners, as well as walkers, will enjoy this beautiful event for a good cause. All proceeds will go to the American Brain Foundation to help support research. The race is open to all meeting attendees and their families. Water and refreshments will be available following the race. The registration fee is \$40.

Bus service to and from the race site will be provided. For registration and details, visit AAN.com/view/RunWalk or contact Andrew Halverson at ahalverson@aan.com or (612) 928-6117.



Awards Luncheon

Tuesday, April 19, 11:30 a.m.–1:00 p.m.

Join AAN leaders as they honor the recipients of the 2016 AAN and American Brain Foundation Awards. From enterprising high school students to world-renowned researchers, this program recognizes some of the top accomplishments in neuroscience research. Past keynote speakers on the importance of curing neurologic diseases include Walter Mondale, Ben Utecht, Billy McLaughlin, Dame Julie Andrews, Cuba Gooding Jr., Leeza Gibbons, and Michael J. Fox. Tickets will be available for \$60 through registration in January 2016. Buy a ticket and show your support for award recipients.

Reserve a Department Table and Be Recognized

Bring your department together and gain exposure for your team at the Awards Luncheon by reserving a department table. Give your residents and fellows the chance to sit together with department faculty and chairs in a place of honor among the top minds in the neurology/neuroscience academic community. For questions, contact Laurie Dixon at ldixon@aan.com or (612) 928-6154. Registration for departments for the Awards Luncheon will open in January 2016.



Closing Party Happy Hour

Thursday, April 21, 5:30 p.m.–7:00 p.m.

Celebrate the end of a great meeting at a special early-evening happy hour event! Enjoy music, drinks, and socializing with colleagues. Each registered meeting attendee will receive one free ticket to this event. Guest tickets are available through registration for \$50.



Reunion/In Conjunction With Meetings

Reconnect with your peers and program directors, and network with your fellow alumni at various department reunion meetings occurring throughout the Annual Meeting. These In Conjunction With (ICW) Meetings, formerly known as Affiliate Meetings, are designed for functions that include Annual Meeting attendees but are not planned by or sponsored by the AAN. If your department is interested in hosting its alumni meeting during the 2016 Annual Meeting, reserve your meeting today at AAN.com/view/ICW or by contacting Marissa Ohman at mohman@aan.com or (612) 928-6147.

CLOSING PARTY

THURSDAY, APRIL 21
5:30 P.M.–7:00 P.M.

Celebrate the end of a great meeting at a special early-evening happy hour event!

- Enjoy music, drinks, and socializing with colleagues
- Make plans to explore beautiful Vancouver afterwards

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 AMERICAN ACADEMY OF
NEUROLOGY®



On Demand

Enhance your Annual Meeting experience with Annual Meeting On Demand.

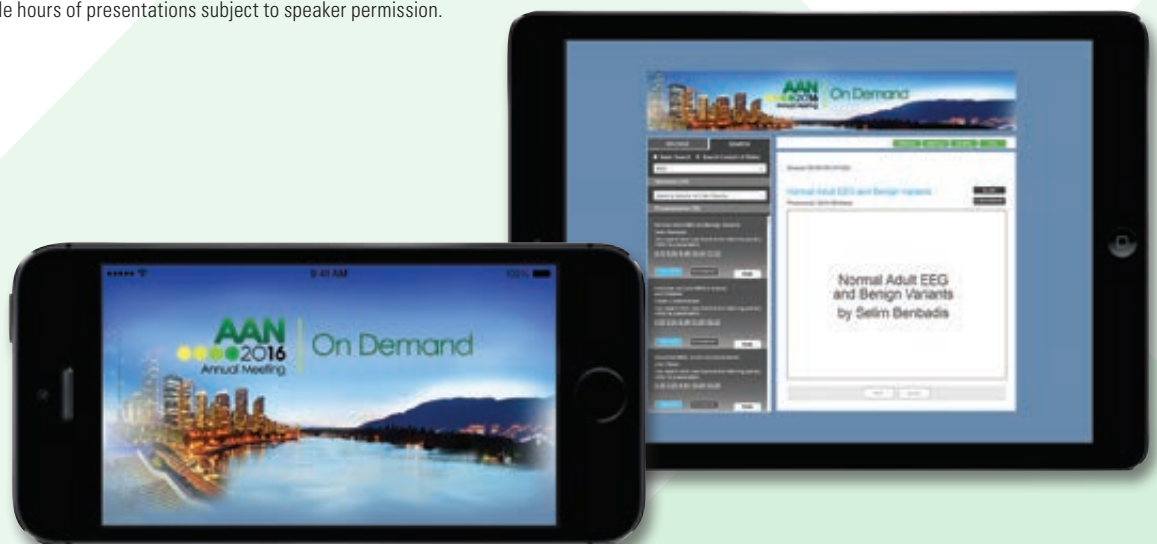
There is no better place than the AAN Annual Meeting for a high-quality educational experience in neurology. With the NEW Annual Meeting Registration and a robust offering of concurrent courses, it is impossible to attend every one. Annual Meeting On Demand delivers captured content from the Annual Meeting to your doorstep so that you can experience the full value of the meeting.

Annual Meeting On Demand is a CME accredited comprehensive digital library with more than 500 hours* of presentations from the 2016 AAN Annual Meeting educational programs including syllabi from more than 450 presentations.

Features of Annual Meeting On Demand include:

- Online access to content within 24 hours of live presentations
- Integrated online CME testing
- An advanced search engine that delivers a direct link to the specific presentations and slides containing your search terms
- Downloadable PDFs of presentation slides and syllabi summaries
- A complimentary portable hard drive for offline viewing when internet is not available

* Total available hours of presentations subject to speaker permission.



Annual Meeting Attendee Pricing:

Gold Registration

Upgrade to gold registration and receive all sessions at the meeting* as well a copy of Annual Meeting On Demand. With so many concurrent sessions, Gold Registration is the best value for attendees who want to experience the meeting.

*Skills Workshops, Maintenance of Certification Exam Preparation Course, Between Venus and Mars: How Great Leadership Adopts Traits from the Best of Both Genders, Improving Your Leadership Skills: A Practical Approach, Women in Leadership, Research Career Development Symposium, The Most Important Tool in Your Black Bag: Gallup StrengthsFinder™ Assessment I & II, Continuum® Test Your Knowledge: A Multiple-choice Question Review I & II, Bedside Evidence-based Medicine: How to Find and Deconstruct Articles in Order to Take Care of Patients I & II, and Genomic Neurology Workshop: Developing Practical Knowledge of Tools and Concepts Through Case Studies I & II, are not included in the Annual Meeting registration price. These courses require pre-registration, may have a separate registration fee, and are subject to closure due to reaching maximum capacity.

Select Gold Registration when you register for the meeting!

New for 2016!

All attendees will receive complimentary online access to [all](#) Annual Meeting Syllabi for one-year. Upgrade to a USB drive for permanent use.

Syllabi On Demand is a quick reference tool with summaries of more than 450 presentations from the 2016 Annual Meeting.

Order Online: AAN.com/view/Register

Not attending the 2016 Annual Meeting?

You can still pre-order On Demand products prior to the meeting and receive a special discount. Learn more by calling or visiting online.

Order Online: AANonDemand.com/PreMeeting

Order by Phone: (800) 501-2303 or (818) 844-3299

Pre-meeting discounts expire April 21, 2016.

Gold Registration

	BEFORE MARCH 24, 2016	AFTER MARCH 24, 2016
STUDENTS	\$199	\$199
SENIOR & HONORARY	\$399	\$399
JUNIOR	\$444	\$534
NON-NEUROLOGIST MEMBER	\$594	\$744
MEMBER	\$1,094	\$1,354
NONMEMBER	\$1,794	\$2,234

Syllabi USB Pricing

	Syllabi On Demand (USB upgrade)
MEMBER, SENIOR, & HONORARY	\$39
NONMEMBER	\$59
JUNIOR AND NON- NEUROLOGIST MEMBER	\$29

Non-Attendee Pricing

	Annual Meeting On Demand	Syllabi On Demand
MEMBER, SENIOR, & HONORARY	\$649	\$199
NONMEMBER	\$949	\$299
JUNIOR AND NON- NEUROLOGIST MEMBER	\$199	\$99

General Information

Accreditation/CME/Core Competencies

Accreditation

The American Academy of Neurology Institute (AANI) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA Credit Designation

The American Academy of Neurology Institute designates this live activity for a maximum of (*) *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

* See individual program descriptions in this booklet for the maximum number of credits per program.

CME/Participation Records

AANI has mechanisms in place to record, and when authorized by the participating physician, verify participation in the CME activity. To receive CME for the Annual Meeting live program, participants must: (1) have their badge printed on site and be verified as eligible for credit; (2) attend the program(s); and (3) submit the evaluation form for the program(s). CME is given only when all three steps are completed. AAN member CME and participation transcripts are available approximately four to six weeks following the close of the meeting via the AAN's NeuroTracker[™] at AAN.com/view/NeuroTracker. Nonmembers' CME credits and participation transcripts will be sent automatically via email.

ABPN Statement

The American Board of Psychiatry and Neurology has reviewed the AAN Annual Meeting and has approved this product as a part of a comprehensive lifelong learning program which is mandated by the ABMS as a necessary component of maintenance of certification.

Core Competencies

The AANI develops its activities/educational interventions in the context of the desirable physician attributes; specifically, of the Accreditation Council for Graduate Medical Education (ACGME) Core Competencies which include:

- ▶ Patient Care
- ▶ Medical Knowledge
- ▶ Interpersonal and Communication Skills
- ▶ Practice-Based Learning and Improvement
- ▶ Professionalism
- ▶ Systems-Based Practice

For more information on the definitions of the ACGME core competencies, please consult the following webpage: ACGME.org.

Once again, the Annual Meeting CME offerings, at the program and lecture level, are identified according to these competencies. Through identifying individual programs by competencies, attendees can easily identify and attend programs that meet each core competency.

AMA CME Definition/Educational Content of Certified CME

The AMA HOD and the Council on Medical Education have defined continuing medical education as follows: CME consists of educational activities which serve to maintain, develop, or increase the knowledge, skills, and professional performance and relationships that a physician uses to provide services for patients, the public, or the profession. The content of CME is the body of knowledge and skills generally recognized and accepted by the profession as within the basic medical sciences, the discipline of clinical medicine and the provision of health care to the public. (HOD policy #300.988)

Certified CME is defined as:

1. Nonpromotional learning activities certified for credit prior to the activity by an organization authorized by the credit system owner, or
2. Nonpromotional learning activities for which the credit system owner directly awards credit

Accredited CME providers may certify nonclinical subjects (e.g., office management, patient-physician communications, faculty development) for *AMA PRA Category 1 Credit*[™] as long as these are appropriate to a physician audience and benefit the profession, patient care, or public health.

CME activities may describe or explain complementary and alternative health care practices. As with any CME activity, these need to include discussion of the existing level of scientific evidence that supports the practices. However, education that advocates specific alternative therapies or teaches how to perform associated procedures, without scientific evidence or general acceptance among the profession that supports their efficacy and safety, cannot be certified for *AMA PRA Category 1 Credit*[™].

Content Validation

The AANI, as an ACCME accredited provider, is responsible for validating the clinical content of CME activities that it provides. Specifically, 1. All the recommendations involving clinical medicine in a CME activity must be based on evidence that is accepted within the profession of medicine as adequate justification for their indications and contraindications in the care of patients. 2. All scientific research referred to, reported, or used in CME in support or justification of a patient care recommendation must conform to the generally accepted standards of experimental design, data collection, and analysis.

Disclaimers/Disclosures

Disclaimer

The primary purpose of the Annual Meeting is to meet the educational needs of its members and address practice gaps by providing practice-oriented and scientifically based educational activities that will maintain and advance competence and performance in the field of neurology.

A diversity of opinions exists in the medical field and the views of the Annual Meeting faculty do not represent those of the AAN/AANI or constitute endorsement by the AAN/AANI. The AAN/AANI disclaims any and all liability for the claims that may result from the use or nonuse of information, publications, therapies, and/or services discussed at the Annual Meeting.

The activities conducted and content distributed at the Annual Meeting are for educational purposes only and do not constitute standard of care or substitute for professional medical advice, diagnosis, or treatment. In all cases, the selected course of action should be considered by the treating provider in the context of treating the individual patient. Use of the content provided is voluntary. The AAN/AANI provide this information on an "as is" basis and makes no warranty, expressed or implied, regarding the information. The AAN/AANI specifically disclaim any warranties of merchantability or fitness for a particular use or purpose. The AAN/AANI assume no responsibility for any injury or damage to persons or property arising out of or related to any use of this information or for any errors or omissions. Attendee assumes any and all liability associated with attendance/participation at the Annual Meeting.

Relationship Disclosure and Conflict of Interest Resolution

According to AANI and ACCME policies, everyone who is in a position to control the content of an education activity must disclose

financial relationships with any commercial interest to the provider. An individual who refuses to disclose relevant financial relationships is disqualified from being a planning committee member, a teacher, or an author of CME, and cannot have control of, or responsibility for, the development, management, presentation or evaluation of the CME activity. In addition, the AANI must implement a mechanism to identify and resolve all conflicts of interest prior to the education activity being delivered to learners. The resolution of conflict is handled by the Education and Science Committees. Disclosures for everyone in the position to control Annual Meeting content can be found on the AAN Annual Meeting website. In addition, education and science faculty disclosures can also be found in the syllabi, slides, handouts, and/or are given verbally from the podium.

Unlabeled Use Disclosure

The AANI requires all Annual Meeting presenters to disclose if a therapy/product is not labeled for the use being discussed or if the therapy/product is still investigational. Unlabeled use disclosures can be found in the program materials.

Grants

Some Annual Meeting education and scientific programs are supported in part by educational grants from commercial entities. Disclosure of the educational grant is done through acknowledgment statements on the program materials, signs outside of the room, and verbally from the podium. Although educational grants are received, all programs are developed and implemented solely by the Education Committee and Science Committee. The terms, conditions, and purposes of the commercial support are documented in a written agreement between the AANI and commercial supporter. The AAN uses grant funds to support and enhance existing, as well as new, education programs.

Services

Child Care Information

A variety of child care options are available in Vancouver, BC, Canada. Check with the concierge at your hotel on or before your arrival to make your arrangements.

Luggage Check

No luggage check is available at the Vancouver Convention Centre. Check with your concierge at your hotel to make your arrangements.

Transportation

Due to the proximity of the hotels to the Vancouver Convention Centre (VCC), the AAN will not be providing shuttle service. Detailed options to the VCC are available on the housing website transportation map. It includes walking directions, public transportation options, and taxi fares. Please use this information when making your housing selection.

Wireless Connection

Wireless Internet hotspots will be available at the Vancouver Convention Centre.

First Aid Station

A First Aid station is located on the lobby level of the Vancouver Convention Centre. The station is staffed by licensed medical professionals and fully equipped with supplies, including automatic external defibrillators (AED). The station is operational throughout the duration of the Annual Meeting.

Prayer Room

A prayer room will be available in the Convention Center for attendees looking for a quiet space for thought, reflection, and prayer.

Mothers Room

A private room will be available in the Health & Wellness area of the convention center for nursing mothers and others with sensitive personal health needs. Please note that this room will not be staffed.

General Information

Continued

Guidelines

Photography and Recording of Programs

The AAN strictly prohibits all unauthorized photography (flash, digital, or otherwise), audio and/or video recording during the Annual Meeting. Equipment will be confiscated. Photography is allowed only in the Poster Sessions.

Consent to Use of Images

All portions of the Annual Meeting may be photographed, videotaped, or recorded for future rebroadcast, distribution, promotion, or other commercial purpose. By attending the Annual Meeting you are consenting to being recorded, photographed, and videotaped without acknowledgment, payment or remuneration of any kind. Any recordings, photographs, or videos of any nature are the sole property of AAN and its successors and assignees.

Cell Phones

The AAN requests that attendees turn cellular phones and pagers to vibrate mode upon entering all Annual Meeting programs.

Language

The official language of the Annual Meeting is English. No simultaneous translation is available.



No Smoking

The Vancouver Convention Centre is a nonsmoking facility. For the health and comfort of everyone, smoking is prohibited at Annual Meeting functions, which include all education and scientific activities and social functions.

Press Room

Only authorized media may use the Press Room at the Annual Meeting. Journalists must check in at the Press Room and provide proper credentials. For more information, contact Rachel Seroka at rseroka@aan.com or (612) 807-6968.

Volunteer Opportunities

Education and Scientific Program Monitors

Monitors are needed for all education program offerings and scientific platform sessions to assist directors, faculty, session co-chairs, and staff as required. The AAN will give discounts to registration fees as well as grant CME credit for the monitored program. Space is available on a first-come, first-served basis. For an application form or more information, contact Laurie Dixon at ldixon@aan.com or (612) 928-6154.

Skills Workshop Volunteers

Volunteers are needed to participate in the Neurophysiologic Intraoperative Monitoring Skills Workshop on Friday, April 15, the EMG Skills Workshop: Basic on Tuesday, April 19, and the Neuromuscular Ultrasound Skills Workshop on Thursday, April 21. Skills workshop subjects will receive a waived meeting registration and workshop fee as well as payment of \$40 per noninvasive session and \$60 per invasive session. Space is available on a first-come, first-served basis. For more information, contact Laurie Dixon at ldixon@aan.com or (612) 928-6154.

Weather/Attire

The climate in Vancouver, BC, Canada, in April is generally cool and pleasant. In April, temperatures usually range from 44 degrees to 54 degrees Fahrenheit. The AAN promotes business casual attire for the duration of the Annual Meeting. Consider bringing a light jacket or sweater to Annual Meeting activities since meeting room temperatures and personal comfort levels vary.



Hotel Reservations

Why Book a Hotel Room Through the AAN?

Booking your room through the official AAN housing company assures you are getting a room at the hotel that best fits your needs. You are also helping the AAN maintain consistent and competitive registration fees. The reason is simple. When a city is selected as the site for the AAN Annual Meeting, contracts are signed with several hotels reserving a specific number of rooms to be available for meeting attendees. If these rooms are not sold, the AAN is liable financially. Penalties incurred affect the overall costs of the Annual Meeting and what the AAN charges for registration, exhibit space, and other services.

Discounted hotel rates are available until February 24, 2016, or until the block is filled. After this date, reservations are subject to availability.

Hotel fees will be posted and charged in Canadian dollars.

Save on Hotel Reservations

Take advantage of the AAN's special hotel rates to make your trip more affordable. Annual Meeting hotel reservations are processed by Convention Management Resources (CMR).

AAN Online Hotel Reservations

AAN.com/view/BookHotel

The AAN makes it easy and convenient to book your hotel rooms for the 68th Annual Meeting. Booking online allows you to:

- ▶ Take advantage of the AAN's special hotel rates
- ▶ View room descriptions, photos, and availability
- ▶ Access maps of hotel proximity to Annual Meeting locations

Telephone Reservations

All correspondence, questions, and inquiries should be directed to CMR at:

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

Hours:
Credit card reservations only
Monday–Friday
6:00 a.m.–6:00 p.m. PT

Deposits

- ▶ All hotels require a credit card guarantee of \$300 (US dollars) per room and \$500 (US dollars) per suite. Deposits will be credited towards your first night's room and tax.
- ▶ No hotel reservation will be processed without a credit card guarantee.
- ▶ Deposits are refundable up to seven days prior to arrival, after which there will be no refunds.
- ▶ Credit cards will be charged for one night's room and tax if you fail to arrive on the confirmed date of arrival or if you fail to cancel your reservation at least seven days prior to arrival.

Confirmations, Changes, and Cancellations

- ▶ You will receive your hotel confirmation from CMR. This is the only confirmation you will receive.
- ▶ Please check your arrival and departure dates on the confirmation carefully.
- ▶ After February 24, 2016, contact CMR to book a room. After this date, however, rooms are subject to availability.

Note: Some hotels may charge a penalty for changes made to your departure date after you have checked in.

Group Accommodations Deadline: February 24, 2016

Blocks of 10 or more sleeping rooms are considered a group. Email your written request to aanam.cmrushelp.com and you will be contacted by an AAN Housing Consultant.

Additional Tax/Assessments

- ▶ Rates do not include the 15% hotel tax.
- ▶ An \$8 per night assessment fee is included to offset the expense of the meeting.



Hotels and Amenities

Canada Line is Vancouver's fully automated rapid transit line. Detailed options to the Vancouver Convention Centre are available on the housing website transportation map.

	Hotel Name and Address	Rate (Canadian \$)	Distance to VCC	Walkable	Internet Cost/Day	Number of Restaurants
1	Best Western Plus Chateau Granville Hotel & Suites 1100 Granville Street	\$145	11 Blocks	Yes	Included	1
2	Blue Horizon Hotel 1225 Robson Street	\$149	9.5 Blocks	Yes	Included	1
3	Carmana Plaza 1128 Alberni Street	\$199	6 Blocks	Yes	Included	0
4	Coast Coal Harbour Hotel 1180 West Hastings Street	\$189	1.5 Blocks	Yes	Included	1
5	Comfort Inn Downtown Vancouver 654 Nelson Street	\$129	9 Blocks	Yes	Included	1
6	Century Plaza Hotel & Spa 1015 Burrard Street	\$159	9 Blocks	Yes	Included	1
7	Delta Vancouver Suites 550 West Hastings Street	\$195	7 Blocks	Yes	Included	1
8	Fairmont Hotel Vancouver 900 West Georgia Street	\$240	3.5 Blocks	Yes	\$14.95	1
9	Fairmont Pacific Rim 1038 Canada Place	\$285	Less Than 1 Block	Yes	\$13.95	1
10	Fairmont Waterfront 900 Canada Place	\$265	1 Block	Yes	\$14.65	1
11	Four Seasons Hotel Vancouver 791 West Georgia Street	\$245	5 Blocks	Yes	Included	1
12	Georgian Court Hotel 773 Beatty Street	\$179	12 Blocks	Yes	Included	1
13	Hampton Inn & Suites by Hilton Downtown 111 Robson Street	\$189	12 Blocks	Yes	Included	1
14	Holiday Inn & Suites Vancouver Downtown 1110 Howe Street	\$156	11 Blocks	Yes	Included	1
15	Holiday Inn Vancouver Centre 711 West Broadway	\$139	2.3 Miles	Canada Line	Included	1
16	Executive Hotel Le Soleil 567 Hornby Street	\$175	4 Blocks	Yes	Included	1
17	Listel Hotel 1300 Robson Street	\$189	8 Blocks	Yes	Included	1
18	Hyatt Regency Vancouver 655 Burrard Street	\$248	4 Blocks	Yes	Included	1
19	Metropolitan Hotel 645 Howe Street	\$199	3 Blocks	Yes	\$8.00	1
20	OPUS Hotel 322 Davie Street	\$289	1.4 miles	Canada Line	Included	1
21	Pan Pacific Hotel Suite 300-999 Canada Place	\$276	Less Than 1 Block	Yes	\$14.95	2
22	Park Inn & Suites by Radisson Vancouver 898 West Broadway	\$125	2.6 Miles	Canada Line	Included	1
23	River Rock Casino Resort 8811 River Road	\$182	7.5 Miles	Canada Line	Included	2
24	Residence Inn by Marriott 1234 Hornby Street	\$189	9 Blocks	Yes	Included	1
25	Ramada Limited Downtown 425 West Pender Street	\$109	6 Blocks	Yes	Included	0
26	Rosewood Hotel Georgia 801 West Georgia Street	\$285	4.5 Blocks	Yes	Included	2
27	Sandman Suites Vancouver On Davie 1160 Davie Street	\$190	10 Blocks	Yes	Included	1
28	Shangri-La Hotel 1128 West Georgia Street	\$355	6 Blocks	Yes	Included	1

	Hotel Name and Address	Rate (Canadian \$)	Distance to VCC	Walkable	Internet Cost/Day	Number of Restaurants
29	Sheraton Vancouver Wall Centre Hotel 1088 Burrard Street	\$182	8 Blocks	Yes	Included	1
30	St. Regis Hotel 602 Dunsmuir Street	\$209	6 Blocks	Yes	Included	2
31	Sutton Place Hotel 845 Burrard Street	\$219	6 Blocks	Yes	\$14.68	1
32	Vancouver Marriott Downtown Hotel—Headquarter Hotel 1128 West Hastings Street	\$285	2 Blocks	Yes	\$7.95	1
33	Vancouver Pinnacle Harbourfront Hotel—Headquarter Hotel 1133 West Hastings Street	\$285	2 Blocks	Yes	Included	1
34	Westin Bayshore Vancouver 1601 Bayshore Drive	\$189	6 Blocks	Yes	\$14.95	1



Travel Information

Save with Annual Meeting Travel Reservations

Through Travel Agency

The official travel agency for the Annual Meeting is Association Travel Pros. For 2%–10% discounted airline tickets to the Annual Meeting, contact them at:

Phone: (877) 309-4330

Email: mytravelagent@innovativetvl.com

Hours: Monday–Friday, 8:30 a.m.–5:30 p.m. CT

Closed weekends and holidays

A \$25 service fee will be assessed per ticket for reservations made via phone. You may also book online with all airline meeting discounts applied at www.aantvmeetings.com. A \$10 service fee will apply to online bookings.

Direct Through Airlines

You may also contact your preferred airline directly. You must reference the AAN Annual Meeting and provide the appropriate airline discount codes listed below.

Airline	Discount Codes	Phone Number	Website
Delta	NMMBY	(800) 328-1111	Delta.com
United	ZVM8 820754	(800) 521-4041	United.com

Discounts are subject to availability, so book well in advance. Normal mileage and status upgrades apply for all airline programs. A service fee will be charged for reservations made via phone.

Travel Website

For travel forms and information updates, visit the AAN Annual Meeting website at AAN.com/view/AM16.

Travel Tips



Travel Documents/Passports and Entry Requirements

Visitors must have valid travel documents/passports to enter Canada to provide proof of their citizenship. Document requirements vary depending from which country you are traveling, the reason for your visit, and the length of your stay, and may include passport or a birth certificate, photo ID, and/or a visa. Learn more about travel documents and requirements at Cic.gc.ca/english/visit.

NOTE: *Special No-Fee*

Passports for US Federal Government Employees

In order to attend the Annual Meeting on business, it may be necessary for US government employees to obtain an official United States government no-fee passport from their appropriate agency office. Government employees should contact the appropriate office within their agency to discuss proposed dates of attendance and to confirm whether or not they will need this official passport.

For more information, or to request a Letter of Announcement for the 2016 Annual Meeting, visit AAN.com/view/AMInfo.

Vancouver, BC, Canada Airport

The Vancouver, BC, Canada, area is served by the Vancouver International Airport. The airport is approximately nine miles from the Vancouver Convention Centre.

Currency

Vancouver, BC, Canada's currency is the Canadian Dollar; currency exchange is available at banks and kiosks throughout the city and at the airport.

- For denominations under five dollars, the currency is coins
- US dollars are accepted in most Vancouver establishments; however you will receive change in Canadian funds and exchange rates will differ from merchant to merchant
- Cash machines/ATMs are available in most banks, hotels, and shopping centers; please note that ATMs at the airport only accept ATM cards with the MasterCard logo on them

IMPORTANT NOTE: *Don't forget to call your bank and credit card companies to let them know you will be traveling to Canada.*

Customs and Immigration

Upon entering Canada, you will be required to go through customs and immigration. Before you land, your flight crew will distribute a Travelers' Customs Declaration Card for you to complete; Declaration Cards are also available at the airport upon your arrival. For more information, visit Travel.gc.ca/returning/customs.

Health Insurance

Be sure to check with your health insurance provider about policy coverage away from home—particularly if you're insured by an HMO and/or Medicare/Medicaid.

Luggage

Restrictions for carry-on baggage and weight and size limits for checked baggage are different for international flights than for domestic flights. Be sure to check with your individual carrier as to weight and measurement restrictions and associated costs for overages.

Measurements

Canada uses the metric system for weights and measures. If you choose to drive in Canada, be aware the speed limits are posted in kilometers per hour instead of miles per hour.

Medication

If you are entering Canada with prescription drugs and syringes: keep the medication in its original, labeled container; include medical certificate with syringes showing they are for medical use and have them declared to Canadian Customs officials; bring an extra prescription in case your medication is lost and/or to attest to your need to take such prescriptions; and carry the generic name of prescription medicines.

Mobile Phone Service

Contact your service provider directly to inquire if service is available and/or the applicable rates.

Time Zone

Vancouver, BC, Canada, is in the Pacific Time Zone. In April it will be the same time zone as Los Angeles, two hours behind Chicago, three hours behind New York, eight hours behind London, and 16 hours behind Tokyo.

For more information, visit AAN.com/view/AMinfo.



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Annual Meeting

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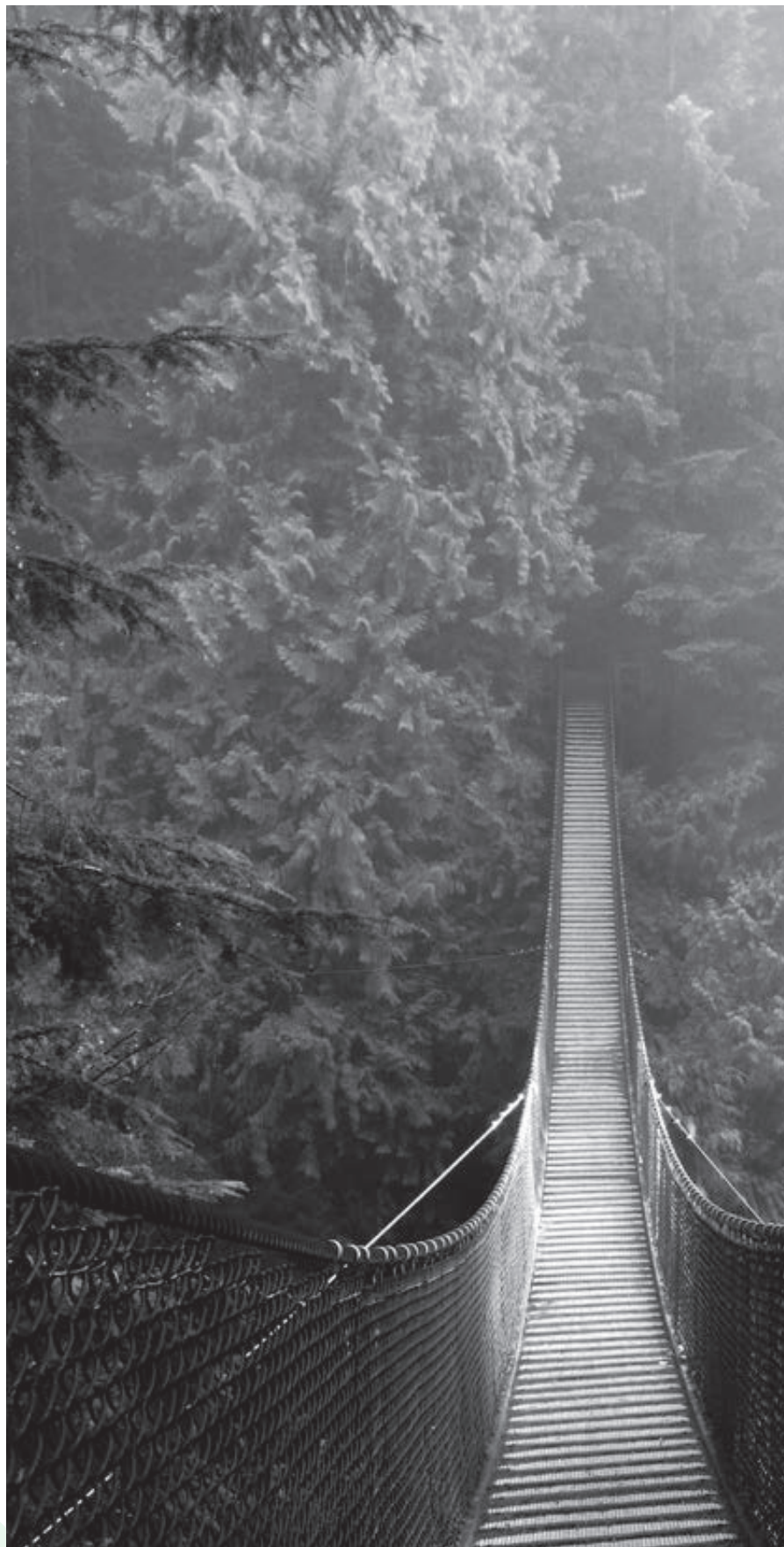
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Meeting Information and Contacts

Hotel Reservation Deadline:

February 24, 2016

Early Registration Deadline:

March 24, 2016

Registration, Hotel, and Travel Reservations:

AAN.com/view/AM16

Meeting Registration and Housing

Phone: Credit card reservations only
US/Canada (800) 676-4226
International (415) 979-2283

Hours: Monday–Friday 6:00 a.m.–6:00 p.m. PT

Online: aanam.cmrushelp.com

Travel Reservation Services

Airline Reservations: Association Travel Pros
Phone: (877) 309-4330
www.aantvlmeetings.com

Hours: Monday–Friday, 8:30 a.m.–5:30 p.m. CT
Closed weekends and holidays

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2016 AAN Leadership Programs

Whether you want to be a mentor or an advocate, to guide or inspire others, you need to cultivate the skills to be an effective leader. Choose the course that's right for you! Limited space, pre-registration required.

C5 Women in Leadership

Supported in part by Allergan, Inc.

Friday, April 15, 2016, 9:00 a.m.–5:00 p.m.

Women who are mid-career and currently in a leadership role looking to grow their current leadership capacity will learn from successful female members in the field of neurology about how to lead at senior levels.

[See full program details on page 111.](#)

Directors: Cynthia L. Comella, MD, FAAN | Barbara L. Hoese

C82 Between Mars and Venus: How Great Leadership Adopts Traits from the Best of Both Genders

Supported in part by Novartis Pharmaceuticals Corporation

Sunday, April 17, 2016, 1:00 p.m.–5:00 p.m.

Participants will look to understand differences in style, mindset, and communication between men and women, and learn practical ideas and approaches to lead in "gender-neutral" workplaces. [See full program details on page 115.](#)

Directors: Orly Avitzur, MD, MBA, FAAN | Stefan M. Pulst, MD, FAAN | Barbara L. Hoese

C115 Improving Your Leadership Skills: A Practical Approach

Monday, April 18, 2016, 1:00 p.m.–5:00 p.m.

Leadership has been defined as having a sound vision and convincing others to follow you. This course will assist you in implementing the vision and offer practical tips and case examples on how to persuade others to follow.

[See full program details on page 117.](#)

Directors: Terrence L. Cascino, MD, FAAN | Ralph L. Sacco, MD, MS, FAHA, FAAN

C233 & C234 The Most Important Tool in Your Black Bag: Gallup StrengthsFinder™ Assessment

Tuesday, April 19, 2016, and Wednesday, April 20, 2016, 1:00 p.m.–5:00 p.m.

A leader needs to know his strengths as a carpenter knows his tools, or a physician knows the instruments at her disposal. In this customized half-day workshop, two Gallup Certified consultants will share a language for understanding your unique strengths, which has powerful application for well-being and happiness.

[See full program details on page 118.](#)

Directors: Keri Bischoff | Julie Anderson



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Register Today for the 68th AAN Annual Meeting

NEW DATES Friday, April 15–Thursday, April 21, 2016

Vancouver, BC, Canada

- ▶ Hotel Reservation Deadline: February 24, 2016
- ▶ Early Registration Deadline: March 24, 2016

AAN.com/view/AM16

Future Annual Meeting Dates and Locations

69th AAN Annual Meeting

Boston, MA
April 22–29, 2017

70th AAN Annual Meeting

Los Angeles, CA
April 7–14, 2018

71st AAN Annual Meeting

Philadelphia, PA
May 4–11, 2019

