Neurohospitalist Track Overview

Created specifically for neurohospitalists whose primary focus is inpatient care, or for anyone who would like to learn more about the care of hospitalized patients, this lineup of programming will cover the gamut from prevention, telestroke, critical care monitoring and consultations, and issues encountered in the ICU.

<table>
<thead>
<tr>
<th>Saturday, April 21, 2018</th>
<th>Wednesday, April 25, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 a.m.–9:00 a.m.</td>
<td>7:00 a.m.–9:00 a.m.</td>
</tr>
<tr>
<td>C3</td>
<td>C137</td>
</tr>
<tr>
<td>Emergency Room Neuro-ophthalmology Topic: Neuro-ophthalmology/Neuro-otology</td>
<td>What Do I Do Now?: Emergency and Inpatient Management of Migraine and Other Headache Disorders</td>
</tr>
<tr>
<td>9:30 a.m.–11:30 a.m.</td>
<td>1:00 p.m.–3:00 p.m.</td>
</tr>
<tr>
<td>C8</td>
<td>C145</td>
</tr>
<tr>
<td>Emergency Neurology: Evaluation of Coma, Meningitis, and Viral Encephalitis in the Emergency Room</td>
<td>Severe TBI: From ICU to Rehabilitation</td>
</tr>
<tr>
<td>1:30 p.m.–3:30 p.m.</td>
<td>1:00 p.m.–3:00 p.m.</td>
</tr>
<tr>
<td>C22</td>
<td>C151</td>
</tr>
<tr>
<td>Stroke in Young Adults and Women</td>
<td>Cerebrovascular Disease III: Update on Neuroimaging Modalities and Endovascular Therapies for Acute Ischemic Stroke</td>
</tr>
<tr>
<td>1:30 p.m.–3:30 p.m.</td>
<td>3:30 p.m.–5:30 p.m.</td>
</tr>
<tr>
<td>C23</td>
<td>C166</td>
</tr>
<tr>
<td>Critical Care Consultations for Neurohospitalists</td>
<td>Cerebrovascular Disease IV: Telestroke</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sunday, April 22, 2018</th>
<th>Thursday, April 26, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 a.m.–9:00 a.m.</td>
<td>7:00 a.m.–9:00 a.m.</td>
</tr>
<tr>
<td>C27</td>
<td>C177</td>
</tr>
<tr>
<td>Neurological Intensive Care I: The Essentials</td>
<td>So You’ve Diagnosed Your Patient with a Neuroinfectious Disease, Now What? Practical Pearls in the Treatment and Management of Neuroinfectious Diseases</td>
</tr>
<tr>
<td>1:00 p.m.–3:00 p.m.</td>
<td>1:00 p.m.–3:00 p.m.</td>
</tr>
<tr>
<td>C38</td>
<td>C190</td>
</tr>
<tr>
<td>Neurological Intensive Care II: Acute Brain and Spinal Cord Injury and Acute Neuromuscular Dysfunction</td>
<td>Neuro-oncologic Predicaments in the Hospital Setting</td>
</tr>
<tr>
<td>1:00 p.m.–3:00 p.m.</td>
<td>1:00 p.m.–5:30 p.m.</td>
</tr>
<tr>
<td>C40</td>
<td>C196</td>
</tr>
<tr>
<td>Autoimmune Neurology I Basics and Beyond: Autoimmune Encephalitis and Paraneoplastic Neurological Syndromes of the CNS and PNS</td>
<td>Brain Death Skills Workshop: How to Perform a Brain Death Evaluation, Avoid Pitfalls and Convey the News to the Family</td>
</tr>
<tr>
<td>3:30 p.m.–5:30 p.m.</td>
<td>3:30 p.m.–5:30 p.m.</td>
</tr>
<tr>
<td>C55</td>
<td>C201</td>
</tr>
<tr>
<td>Neurological Intensive Care III: Vascular Diseases</td>
<td>Differential Diagnosis of Neurologic Infections</td>
</tr>
<tr>
<td>3:30 p.m.–5:30 p.m.</td>
<td>3:30 p.m.–5:30 p.m.</td>
</tr>
<tr>
<td>C55</td>
<td>C203</td>
</tr>
<tr>
<td>Autoimmune Neurology II Advanced: Autoimmune Encephalitis at the Frontiers of Neuroscience</td>
<td>Endovascular Treatment of Acute Stroke and Cerebrovascular Disease</td>
</tr>
<tr>
<td>6:30 p.m.–9:30 p.m.</td>
<td>6:30 p.m.–9:30 p.m.</td>
</tr>
<tr>
<td>C211</td>
<td>C211</td>
</tr>
<tr>
<td>Case Studies in the ICU</td>
<td>Case Studies in the ICU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Monday, April 23, 2018</th>
<th>Friday, April 27, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 a.m.–9:00 a.m.</td>
<td>7:00 a.m.–9:00 a.m.</td>
</tr>
<tr>
<td>C66</td>
<td>C218</td>
</tr>
<tr>
<td>Update on Medical Management of Stroke</td>
<td>Infections of the Nervous System I: Diagnostic Testing of Neurological Infections</td>
</tr>
<tr>
<td>1:00 p.m.–3:00 p.m.</td>
<td>7:00 a.m.–9:00 a.m.</td>
</tr>
<tr>
<td>C78</td>
<td>C220</td>
</tr>
<tr>
<td>Therapeutic Temperature Modulation in the ICU</td>
<td>Drugs and Toxin-induced Neurologic Emergencies</td>
</tr>
<tr>
<td>1:00 p.m.–3:00 p.m.</td>
<td>1:00 p.m.–3:00 p.m.</td>
</tr>
<tr>
<td>C96</td>
<td>C226</td>
</tr>
<tr>
<td>Status Epilepticus</td>
<td>Infections of the Nervous System II: Neuro-ID Emergencies</td>
</tr>
<tr>
<td>1:00 p.m.–3:00 p.m.</td>
<td>1:00 p.m.–3:00 p.m.</td>
</tr>
<tr>
<td>C106</td>
<td>C230</td>
</tr>
<tr>
<td>Critical Care EEG Monitoring</td>
<td>Neurologic Complications of Medical and Surgical Therapies</td>
</tr>
<tr>
<td>1:00 p.m.–3:00 p.m.</td>
<td>3:30 p.m.–5:30 p.m.</td>
</tr>
<tr>
<td>C116</td>
<td>C239</td>
</tr>
<tr>
<td>Cerebrovascular Disease I: Prevention</td>
<td>Infections of the Nervous System III: Advanced Topics in Infectious Neurology</td>
</tr>
<tr>
<td>3:30 p.m.–5:30 p.m.</td>
<td>6:30 p.m.–9:30 p.m.</td>
</tr>
<tr>
<td>C124</td>
<td>C218</td>
</tr>
<tr>
<td>The Palliative Care Guide in Neurology: Best Practice in Communication, Advance Care Planning, and End-of-life Care of Patients with Brain Tumors and Other Life-limiting Neurological Disorders</td>
<td>Infections of the Nervous System I: Diagnostic Testing of Neurological Infections</td>
</tr>
<tr>
<td>3:30 p.m.–5:30 p.m.</td>
<td>7:00 a.m.–9:00 a.m.</td>
</tr>
<tr>
<td>C129</td>
<td>C220</td>
</tr>
<tr>
<td>Cerebrovascular Disease II: Update on Guidance-Based Diagnosis and Management of Hemorrhagic Stroke</td>
<td>Drugs and Toxin-induced Neurologic Emergencies</td>
</tr>
</tbody>
</table>
Program Tracks

Neurohospitalist Track

C3  Emergency Room Neuro-ophthalmology

Topic:  Neuro-ophthalmology/Neuro-otology; Neuro Trauma, Critical Care, and Sports Neurology

Director:  Heather Moss, MD, PhD, FAAN, Palo Alto, CA

Program Description:
In the patient with acute visual loss, diplopia, and extra-eye movements, 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 examination techniques, evaluation, and management. Didactic lectures, case examples, and open discussion with the faculty will provide participants 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:
- Approach to Patients with Vision Loss  
  Heather Moss, MD, PhD, FAAN, Palo Alto, CA
- Approach to the Funduscopic Exam  
  Beau Benjamin Bruce, MD, Atlanta, GA
- Emergent Afferent Neuro-ophthalmic Cases  
  Heather Moss, MD, PhD, FAAN, Palo Alto, CA
- Approach to Patients with Diplopia  
  Heather Moss, MD, PhD, FAAN, Palo Alto, CA
- Approach to Patients with Funny Eye Movements  
  Eric R. Eggenberger, DO, FAAN, Jacksonville, FL
- Emergent Efferent Neuro-ophthalmic Cases  
  Eric R. Eggenberger, DO, FAAN, Jacksonville, FL

Core Competencies:  Medical Knowledge, Patient Care

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

CME Credits:  2

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

C8  Emergency Neurology: Evaluation of Coma, Meningitis, and Viral Encephalitis in the Emergency Room

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

Director:  Jose I. Suarez, MD, Baltimore, MD

Program Description:
Advances in the treatment of neurologic emergencies have increased the complexity of their initial evaluation and impacted the way neurologists deal with them. Faculty will present discussions to highlight important issues such as high level of clinical suspicion, rapid and effective diagnosis and execution of treatment plans. All presentations will emphasize importance of appropriate therapeutic decisions carried out during the first few minutes of the initial encounter to prevent further neurologic injury.

Upon Completion:
Participants should be able to delineate the steps to follow to provide immediate evaluation and management of patients in coma in an organized fashion. In addition, participants should be able to recognize and initiate work up and management of patients presenting with suspected meningitis and encephalitis particularly in the current environment of emergent world pandemics.

Lecture/Faculty:
- Coma  
  Jose I. Suarez, MD, Baltimore, MD
- Meningitis and Viral Encephalitis  
  Faculty

Core Competencies:  Medical Knowledge, Patient Care

Teaching Style:  Case-Based, Didactic, Interactive

CME Credits:  2

Recommended Audience:  Advanced Practice Provider, General Neurologist, Non-Neurologist, Specialist Neurologist, Trainee
**Course**

**C22 Stroke in Young Adults and Women**

**Topic:** 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; cerebral venous sinus thrombosis, hemorrhagic strokes, and pediatric/neonatal stroke will not be addressed given time constraints. Special emphasis will be given to cerebral arteriopathies such as dissection, vasculitis, and the reversible cerebral vasoconstriction syndromes, as well as hormonal risk factors. We will address the unique multi-disciplinary needs of young adults and women with stroke.

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

**Lecture/Faculty:**
- **Arterial and Cardiac Causes**
  Aneesh B. Singhal, MD, FAAN, Boston, MA
- **Hormones and Hypercoagulable States**
  Cheryl Bushnell, MD, MHS, Winston Salem, NC

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

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

**CME Credits:** 2

**Recommended Audience:** Advanced Practice Provider, General Neurologist, Neurohospitalist, Non-Neurologist, Specialist Neurologist, Trainee

---

**Course**

**C23 Critical Care Consultations for Neurohospitalists**

**Topic:** Neuro Trauma, Critical Care, and Sports Neurology; General Neurology

**Director:** Vanja C. Douglas, MD, San Francisco, CA

**Program Description:**
Neurohospitalists are frequently asked to consult on patients in the intensive care unit. Common reasons for consultation include prognosis after cardiac arrest, seizures and status epilepticus, and neuromuscular respiratory failure. In this course, faculty will discuss neuroprotection and prognostication after cardiac arrest; detection, diagnosis and management of seizures in the intensive care unit, including an update on management of status epilepticus; and common and rare but treatable causes of neuromuscular respiratory failure.

**Upon Completion:**
Participants should be able to discuss the neuroprotective effect of targeted temperature management after cardiac arrest and prognosticate effectively in these patients; utilize the most up to date treatment algorithms for status epilepticus and describe approaches to treatment of non-convulsive status epilepticus; and diagnose both the most common causes of neuromuscular respiratory failure as well as rare but treatable diseases such as acid maltase deficiency.

**Lecture/Faculty:**
- **Status Epilepticus and Seizures in the Intensive Care Unit**
  John Betjemann, MD, San Francisco, CA
- **Common and Rare Causes of Neuromuscular Respiratory Failure Every Neurohospitalist Should Be Aware Of**
  R Brian Sommerville, MD, Saint Louis, MO
- **Neuroprotection and Prognosis After Cardiac Arrest in the Era of Targeted Temperature Management**
  Vanja C. Douglas, MD, San Francisco, CA

**Core Competencies:** Medical Knowledge, Patient Care

**Teaching Style:** Case-Based, Didactic, Interactive

**CME Credits:** 2

**Recommended Audience:** Advanced Practice Provider, General Neurologist, Neurohospitalist, Non-Neurologist, Trainee
**Program Tracks**

**Neurohospitalist Track**

<table>
<thead>
<tr>
<th>Course</th>
<th>Sunday, April 22, 2018  7:00 a.m.–9:00 a.m.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C27</td>
<td>Neurological Intensive Care I: The Essentials</td>
</tr>
<tr>
<td>Topic</td>
<td>Neuro Trauma, Critical Care, and Sports Neurology</td>
</tr>
<tr>
<td>Director</td>
<td>David M. Greer, MD, FAAN, Boston, MA</td>
</tr>
</tbody>
</table>

**Program Description:**
This program will provide the essentials of neurocritical staples, including neuroprognostication, multimodality monitoring, and elevated intracranial pressure, both its prevention and management. The expert speakers will provide up-to-date discussions of the processes in each of these areas, arming the attendees with strong knowledge base for these neurocritical care situations and management.

*This program complements C38: Neurological Intensive Care II: Acute Brain and Spinal Cord Injury and Acute Neuromuscular Dysfunction and C53: Neurological Intensive Care III: Vascular Diseases, but covers independent topics.*

**Upon Completion:**
Participants should be able to understand the basics of multimodality monitoring, how to approach prognostication for a variety of acute brain injuries, and how to prevent and treat elevated intracranial pressure in the intensive care unit.

**Lecture/Faculty:**
- Neuroprognostication
  David Y. Hwang, MD, New Haven, CT
- Elevated ICP: Prevention and Management
  Anna Marisa Cervantes-Arslanian, MD, Boston, MA
- Multimodality Monitoring
  Stephan A. Mayer, MD, Detroit, MI

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

**Teaching Style:** Didactic

**CME Credits:** 2

**Recommended Audience:** Advanced Practice Provider, General Neurologist, Neurohospitalist, Non-Neurologist, Specialist Neurologist, Trainee, Nurse, Nurse Practitioner, Physician Assistant

---

<table>
<thead>
<tr>
<th>Course</th>
<th>Sunday, April 22, 2018  1:00 p.m.–3:00 p.m.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C38</td>
<td>Neurological Intensive Care II: Acute Brain and Spinal Cord Injury and Acute Neuromuscular Dysfunction</td>
</tr>
<tr>
<td>Topic</td>
<td>Neuro Trauma, Critical Care, and Sports Neurology</td>
</tr>
<tr>
<td>Director</td>
<td>Kristine H. O’Phelan, MD, Miami, FL</td>
</tr>
</tbody>
</table>

**Program Description:**
This session will provide instruction for best practice management of common disorders encountered in neurocritical care practice. These include traumatic brain injury, acute spinal cord injury, status epilepticus, and acute neuromuscular dysfunction. Specific attention is given to targeting improved functional outcomes for our patients and avoiding common pitfalls of management.

*This program complements C27: Neurological Intensive Care I: Acute Brain and Spinal Cord Injury and Acute Neuromuscular Dysfunction and C38: Neurological Intensive Care II: Acute Brain and Spinal Cord Injury and Acute Neuromuscular Dysfunction, but covers independent topics.*

**Upon Completion:**
Participants should be able to identify markers of severity of illness in patients with acute traumatic brain injury, acute spinal cord injury, and acute neuromuscular dysfunction; explain the pathophysiology of secondary brain injury in acute traumatic brain injury and spinal cord injury and give examples of therapies to mitigate this risk; and describe an approach to the patient with acute respiratory failure due to neuromuscular weakness.

**Lecture/Faculty:**
- Management of Acute Neuromuscular Diseases in the NSICU
  Neha Dangayach, MD, New York, NY
- Management of Acute TBI and SCI in the NSICU
  Kristine H. O’Phelan, MD, Miami, FL
- Management of Status Epilepticus in the NSICU
  Jan Claassen, MD, PhD, New York, NY

**Core Competencies:** Medical Knowledge, Patient Care

**Teaching Style:** Didactic

**CME Credits:** 2

**Recommended Audience:** General Neurologist, Neurohospitalist, Non-Neurologist, Specialist Neurologist, Trainee, Nurse, Advanced Practice Provider
C40 Autoimmune Neurology I Basics and Beyond: Autoimmune Encephalitis and Paraneoplastic Neurological Syndromes of the CNS and PNS

Topic: General Neurology
Director: Maarten Jan 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; including clinical pearls aiding diagnosis of autoimmune and paraneoplastic neurologic disorders, also covering 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 C55: Autoimmune Neurology II Advanced: Autoimmune Encephalitis at the Frontiers of Neuroscience, 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:
- Classical Paraneoplastic Neurological Disorders
  Andrew McKeon, MD, Rochester, MN
- Autoimmune Disorders of the Peripheral Nervous System
  Eric Lancaster, MD, PhD, Philadelphia, PA
- Autoimmune Encephalitis—The Cell Surface and Synaptic Antibodies
  Josep O. Dalmau, MD, PhD, FAAN, Barcelona, Spain

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

Teaching Style: Audience Participation, Case-Based, Didactic

CME Credits: 2

Recommended Audience: General Neurologist, Specialist Neurologist, Trainee

C53 Neurological Intensive Care III: Vascular Diseases

Topic: Neuro Trauma, Critical Care, and Sports Neurology
Director: Lori A. Shutter, MD, PT, Pittsburgh, PA

Program Description:
The practice of neurocritical care requires knowledge of brain pathophysiology and vascular diseases of the nervous system. The lectures in this session will provide in-depth reviews of essential topics for any neurologists caring for critically ill patients following acute ischemic and hemorrhagic intracranial events, including ischemic stroke, cerebral reperfusion, subarachnoid hemorrhage, intracerebral hemorrhage, and cerebral sinus thrombosis. This program complements C27: Neurological Intensive Care I: The Essentials, and C38: Neurological Intensive Care II: From the Brain to the Muscles, but covers independent topics.

Upon Completion:
Participants should be able to discuss the ICU care of ischemic stroke and reperfusion issues, address the medical management of subarachnoid patients, and identify the ICU needs of patients with intraparenchymal hemorrhagic lesions.

Lecture/Faculty:
- Introduction
  Lori A. Shutter, MD, PT, Pittsburgh, PA
- ICU Management of Ischemic Stroke and Reperfusion
  Nerissa U. Ko, MD, San Francisco, CA
- Medical Management of Subarachnoid Hemorrhage
  Sherry Chou, MD, Pittsburgh, PA
- Critical Care of Intraparenchymal Hemorrhage
  Asma Moheet, MD, Los Angeles, CA

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

Teaching Style: Case-Based, Didactic

CME Credits: 2

Recommended Audience: Advanced Practice Provider, General Neurologist, Neurohospitalist, Specialist Neurologist, Trainee
Autoimmune Neurology II Advanced: Autoimmune Encephalitis at the Frontiers of Neuroscience

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 C40: Autoimmune Neurology I Basics and Beyond: Autoimmune Encephalitis and Paraneoplastic Neurological Syndromes of the CNS and PNS, 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, FAAN, Barcelona, Spain
- Epilepsy and Encephalitis
  Maarten Jan Titulaer, MD, PhD, Rotterdam, Netherlands
- Imaging and Encephalitis
  John Probasco, MD, Baltimore, MD
- Difficult Cases and Clinical Pearls
  Josep O. Dalmau, MD, PhD, FAAN, Barcelona, Spain
  John Probasco, MD, Baltimore, MD
  Maarten Jan Titulaer, MD, PhD, Rotterdam, Netherlands

Core Competencies: Medical Knowledge, Patient Care
Teaching Style: Audience Participation, Case-Based, Didactic
CME Credits: 2
Recommended Audience: General Neurologist, Specialist Neurologist, Trainee

Update on Medical Management of Stroke

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 is designed to address the challenges in management of acute stroke and to provide attendees with the essential set of skills for rapid clinical decision-making that is based on the latest advances in cerebrovascular disease. Critical milestones in the management timeline of acute stroke and resources necessary to deliver best practices in stroke care will be outlined.

Upon Completion:
Participants should be familiar with the latest advances in medical management of acute stroke, including the 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 resource utilization (such as TeleStroke and advanced neuroimaging) to guide precision-diagnosis and management options that are known to improve stroke outcomes.

Lecture/Faculty:
- Hyperacute Stroke: All That On-Call Neurologists Need to Know
  Natalia Sana Rost, MD, MPH, FAAN, Boston, MA
- Beyond Thrombolitics: Medical Management of Acute Stroke and Its Early Complications
  Jose Biller, MD, FAAN, FACP, FAHA, Maywood, IL
- Difficult Decision-Making in Acute Stroke: Tools and Resources for Management of Unstable Patients
  Natalia Sana Rost, MD, MPH, FAAN, Boston, MA
- Special Cases in Acute Stroke: Challenging the Norm
  Jose Biller, MD, FAAN, FACP, FAHA, Maywood, IL

Core Competencies: Interpersonal and Communication Skills, Patient Care, Practice-Based Learning and Improvement
Teaching Style: Didactic, Interactive, Audience Participation, Case-Based
CME Credits: 2
Recommended Audience: General Neurologist, Specialist Neurologist, Trainee
### C78  *Therapeutic Temperature Modulation in the ICU*

**Topic:** Cerebrovascular Disease and Interventional Neurology  
**Director:** Stephan A. Mayer, MD, Detroit, MI

**Program Description:**
Therapeutic temperature modulation (TTM) is an essential therapy for minimizing brain injury in the ICU. Faculty will review the latest technology, data, and protocols for TTM in the treatment of hypoxic-ischemic brain injury after cardiac arrest, elevated intracranial pressure, and neurogenic fever; explain how to minimize complications from TTM; and describe the implications of TTM on prognostication after severe brain injury.

**Upon Completion:**
Participants should be able to know when TTM is indicated and when it is not, employ ICU-based protocols and algorithms for the safe and efficient application of TTM, and understand the impact of TTM on neurological recovery and prognostication.

**Lecture/Faculty:**
- How to Cool in the ICU  
  Neeraj Badjatia, MD, Baltimore, MD  
- TTM for Cardiac Arrest  
  Stephan A. Mayer, MD, Detroit, MI  
- TTM For Fever Control  
  David M. Greer, MD, FAAN, Boston, MA  
- TTM for Trauma and ICP  
  Neeraj Badjatia, MD, Baltimore, MD  
- Emerging Indications: Sepsis, Stroke, and Status  
  David M. Greer, MD, FAAN, Boston, MA  
- Prognostication in th Era of TTM  
  Stephan A. Mayer, MD, Detroit, MI

**Core Competencies:** Medical Knowledge, Patient Care

**Teaching Style:** Audience Participation, Case-Based, Didactic

**CME Credits:** 2

**Recommended Audience:** Advanced Practice Provider, General Neurologist, Neurohospitalist, Non-Neurologist, Specialist Neurologist, Trainee

---

### C96  *Status Epilepticus*

**Topic:** Epilepsy/Clinical Neurophysiology (EEG)  
**Director:** Stephan Schuele, MD, FAAN, Chicago, IL

**Program Description:**
Status epilepticus (SE) is a true neurologic emergency. In recent years, there has been a wealth of new information changing our practice on the clinical diagnosis, use of EEG, etiology, and treatment for the various phases and forms of SE. This session will provide a comprehensive overview of the evaluation and treatment of SE and update on newest research and clinical trials.

**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; and utilize several more “aggressive” treatments effectively for the most refractory SE cases.

**Lecture/Faculty:**
- Classification and Etiology of Status Epilepticus  
  Frank W. Drislane, MD, FAAN, Newton, MA  
- Treatment of Early Status Epilepticus  
  Thomas P. Bleck, MD, FAAN, Chicago, IL  
- Quantitative EEG and Guidelines for ICU VEEG Monitoring  
  Lawrence J. Hirsch, MD, FAAN, New Haven, CT  
- Treatment of Refractory Status Epilepticus  
  Stephan Schuele, MD, FAAN, Chicago, IL

**Core Competencies:** Medical Knowledge, Patient Care

**Teaching Style:** Case-Based, Didactic, Interactive

**CME Credits:** 2

**Recommended Audience:** Advanced Practice Provider, General Neurologist, Neurohospitalist, Non-Neurologist, Specialist Neurologist, Trainee
### Critical Care EEG Monitoring

**Course**

**Tuesday, April 24, 2018 1:00 p.m.–3:00 p.m.**

**C106** Critical Care EEG Monitoring

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

**Director:** Suzette M. LaRoche, MD, FAAN, Asheville, NC

**Program Description:**
This course will review important aspects of continuous EEG (cEEG) monitoring in critically ill patients. This will include a review of clinical indications as well as practical considerations for implementation of cEEG. Interpretation of cEEG in the critically ill presents unique challenges compared to routine EEG, so faculty will explain how to identify seizures and differentiate from other periodic and rhythmic patterns as well as artifacts. Quantitative EEG analysis is being increasingly used for detection of seizures and other acute changes but is relatively new to many neurologists, so faculty will review basic QEEG concepts and clinical use in critically ill patients.

**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 seizures from other periodic and rhythmic patterns as well as recognize the value and limitations of quantitative analysis of cEEG and apply this to their practice settings.

**Lecture/Faculty:**
- Indications and Practical Aspects
  - Faculty
- Interpretation of Raw EEG Patterns in the Critically Ill
  - Suzette M. LaRoche, MD, FAAN, Asheville, NC
- Quantitative EEG for Identification of Seizures and Other Acute Changes
  - Faculty

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

**Teaching Style:** Audience Participation, Case-Based, Didactic

**CME Credits:** 2

**Recommended Audience:** Advanced Practice Provider, General Neurologist, Neurohospitalist, Specialist Neurologist, Trainee

---

### Cerebrovascular Disease I: Prevention

**Course**

**Tuesday, April 24, 2018 1:00 p.m.–3:00 p.m.**

**C116** 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 changing epidemiology and lifestyle modifications, platelet antiaggregants, and patent foramen ovale. There will be ample time for discussion and questions. 

This program complements C129: Cerebrovascular Disease II: Update on Guidance-Based Diagnosis and Management of Hemorrhagic Stroke, C151: Cerebrovascular Disease III: Update on Neuroimaging Modalities and Endovascular Therapies for Acute Ischemic Stroke, and C166: Cerebrovascular Disease IV: Telestroke.

**Upon Completion:**
Participants should be able to discuss recent changes in stroke epidemiology, recommend appropriate lifestyle changes for stroke prevention, understand the indications and choice of platelet antiaggregants, and discuss risks and benefits of closure of a patent foramen ovale in patients with cryptogenic stroke.

**Lecture/Faculty:**
- Changing Epidemiology and Importance of Lifestyle
  - Larry B. Goldstein, MD, FAAN, FAHA, Lexington, KY
- Platelet Antiaggregants for Stroke Prevention
  - Larry B. Goldstein, MD, FAAN, FAHA, Lexington, KY
- Patent Foramen Ovale in the Setting of Cryptogenic Stroke
  - Steven R. Messe, MD, FAAN, FAHA, Philadelphia, PA

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

**Teaching Style:** Didactic, Interactive

**CME Credits:** 2

**Recommended Audience:** Advanced Practice Provider, General Neurologist, Non-Neurologist, Specialist Neurologist, Trainee
C124 The Palliative Care Guide in Neurology: Best Practice in Communication, Advance Care Planning, and End-of-life Care of Patients with Brain Tumors and Other Life-limiting Neurological Disorders

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 with brain tumor patients, as well as other life-limiting neurological disorders. 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 and how to initiate advance care planning. The principles will focus on neuro-oncology patients, as well as other patients with life-limiting neurological disorders. Special attention will be given to practical decision making, symptom management, and advance care planning.

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:
- The Role of Hospice and Palliative Care: Advance Care Planning in Neurology
  Tobias Walbert, MD, PhD, Detroit, MI
- Difficult Conversations Made Easier
  Alan C. Carver, MD, New York, NY

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

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

CME Credits: 2

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

C129 Cerebrovascular Disease II: Update on Guidance-Based Diagnosis and Management of Hemorrhagic Stroke

Topic: Cerebrovascular Disease and Interventional Neurology
Director: Philip B. Gorelick, MD, MPH, FAAN, Grand Rapids, MI

Program Description:
Intracranial hemorrhage (ICH) is frequently encountered by neurologists in practice. Proper diagnostic and management skills are necessary as ICH is associated with high morbidity and mortality rates. In this course a case-based approach to ICH will be emphasized. Two major types of ICH, subarachnoid hemorrhage (SAH) and intraparenchymal hemorrhage (IPH), will be featured. A case presentation will be followed by guideline-based information regarding diagnosis, treatment, and prevention of SAH and IPH.
This program complements C116: Cerebrovascular Disease I: Prevention, C151: Cerebrovascular Disease III: Update on Neuroimaging Modalities and Endovascular Therapies for Acute Ischemic Stroke, and C166: Cerebrovascular Disease IV: Telestroke, but covers independent topics.

Upon Completion:
Participants should be able to properly diagnose, manage, and prevent subarachnoid hemorrhage and intraparenchymal according to major guideline statements. New study data that may influence every day neurologic practice also will be discussed.

Lecture/Faculty:
- Diagnosis and Management of Subarachnoid Hemorrhage
  Venkatesh Aiyagari, MD, Dallas, TX
- Diagnosis and Management of Intraparenchymal Hemorrhage
  Andrew M. Naidech, MD, FAAN, Chicago, IL

Core Competencies: Medical Knowledge, Patient Care

Teaching Style: Case-Based, Didactic

CME Credits: 2

Recommended Audience: Trainee, Pharmacist, Advanced Practice Provider, General Neurologist, Neurohospitalist, Non-Neurologist, Specialist Neurologist
**Course**

**Wednesday, April 25, 2018  7:00 a.m.–9:00 a.m.**

<table>
<thead>
<tr>
<th>C137</th>
<th>What Do I Do Now?: Emergency and Inpatient Management of Migraine and Other Headache Disorders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topic:</td>
<td>Headache</td>
</tr>
<tr>
<td>Director:</td>
<td>Stephanie J. Nahas, MD, FAAN, Philadelphia, PA</td>
</tr>
</tbody>
</table>

**Program Description:**
A combined case-based and didactic approach will illustrate empiric and evidence-based diagnosis and management strategies for patients presenting with headache in the urgent or inpatient setting. Topics to be covered include migraine, trigeminal autonomic cephalalgias, secondary headaches, and others.

Four illustrative cases will serve as the backbone of this course. Each faculty member will bring one case for discussion, and the last case may be submitted from a member of the AAN. One faculty member will lead each case discussion, but all will participate as part of a panel.

If interested in submitting your case, please email stephanie.nahas@jefferson.edu by February 1, 2018.

**Upon Completion:**
Participants should be able to discuss the diagnostic approach to patients with headache in the emergency department or hospital and explain the process and rationale for selecting therapy.

**Lecture/Faculty:**
- Introduction
  - Stephanie J. Nahas, MD, FAAN, Philadelphia, PA
- Case #1
  - Stephanie J. Nahas, MD, FAAN, Philadelphia, PA
  - Mia T. Minen, MD, New York, NY
  - William B. Young, MD, FAAN, Philadelphia, PA
- Case #2
  - Stephanie J. Nahas, MD, FAAN, Philadelphia, PA
  - Mia T. Minen, MD, New York, NY
  - William B. Young, MD, FAAN, Philadelphia, PA
- Case #3
  - Stephanie J. Nahas, MD, FAAN, Philadelphia, PA
  - Mia T. Minen, MD, New York, NY
  - William B. Young, MD, FAAN, Philadelphia, PA
- Case #4
  - Stephanie J. Nahas, MD, FAAN, Philadelphia, PA
  - Mia T. Minen, MD, New York, NY
  - William B. Young, MD, FAAN, Philadelphia, PA

**Core Competencies:**
- Patient Care, Medical Knowledge

**Teaching Style:**
- Panel Discussion, Audience Participation, Case-Based, Didactic

**CME Credits:**
- 2

**Recommended Audience:**
- Advanced Practice Provider, General Neurologist, Neurohospitalist, Non-Neurologist, Specialist Neurologist, Trainee, NeuroIntensivist

---

**Course**

**Wednesday, April 25, 2018  1:00 p.m.–3:00 p.m.**

<table>
<thead>
<tr>
<th>C145</th>
<th>Severe TBI: From ICU to Rehabilitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topics:</td>
<td>Neuro-rehabilitation; Aging, Dementia, Cognitive, and Behavioral Neurology; Neuro Trauma, Critical Care, and Sports Neurology</td>
</tr>
<tr>
<td>Director:</td>
<td>Susanne Muehlschlegel, MD, MPH, Worcester, MA</td>
</tr>
</tbody>
</table>

**Program Description:**
Traumatic brain injury (TBI) is one of the most common, disabling neurologic disorders. Severe TBI continues to be the leading cause of death and disability after trauma accounting for most of the 52,000 TBI-related deaths in the US annually. Severe TBI presents many difficult clinical and research challenges in diagnosis and treatment, including early diagnosis and management to limit secondary injury, as well as prognostication. This course will focus on severe TBI from the acute care stage in the ICU to rehabilitation. Faculty will discuss the mechanisms of brain damage after TBI, with emphasis on secondary brain injury, as well as best practices for acute management and prognostication after severe TBI. Speakers will present up-to-date guideline-based management strategies; cutting-edge clinical and research neuroimaging methods including diffusion tensor imaging; describe emerging research in biomarkers, prognostication, and decision-making; and address current controversies of diagnosis and treatment.

**Upon Completion:**
Participants should be familiar with the variety of pathophysiologic mechanisms associated with TBI and how to prevent or minimize secondary brain injury with up-to-date acute management recommendations emphasizing relevant guidelines; and be comfortable using clinical information and imaging techniques to aid in prognostication after severe TBI.

**Lecture/Faculty:**
- Severe TBI in the ICU: Management and Prognosis
  - Susanne Muehlschlegel, MD, MPH, Worcester, MA
- Imaging in Severe TBI
  - Brian Edlow, MD, Boston, MA
- Pharmacological and Rehabilitative Approaches to Neurological Sequelae of TBI

**Faculty**

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

**Teaching Style:**
- Audience Participation, Case-Based, Didactic

**CME Credits:**
- 2

**Recommended Audience:**
- Advanced Practice Provider, General Neurologist, Neurohospitalist, Non-Neurologist, Specialist Neurologist, Trainee, NeuroIntensivist
**Course**

**Wednesday, April 25, 2018  1:00 p.m.–3:00 p.m.**

**C151 Cerebrovascular Disease III: Update on Neuroimaging Modalities and Endovascular Therapies for Acute Ischemic Stroke**

**Topic:** Cerebrovascular Disease and Interventional Neurology  
**Director:** Philip B. Gorelick, MD, MPH, FAAN, Grand Rapids, MI

**Program Description:**
Since the approval of intravenous (IV) alteplase and the clearance of mechanical clot retrieval devices for the treatment of acute ischemic stroke (AIS), stroke management has substantially changed. Through case-based presentations, faculty will facilitate discussion of indications for IV alteplase, how neuroimaging may help select patients for AIS therapies, and update the use of endovascular interventions.

This program complements C116: Cerebrovascular Disease I: Prevention, C129: Cerebrovascular Disease II: Update on Guidance-based Diagnosis and Management of Hemorrhagic Stroke, and C166: Cerebrovascular Disease IV: Telestroke, but covers independent topics.

**Upon Completion:**
Participants should be able to identify indications for intravenous alteplase in acute ischemic stroke treatment, apply neuroimaging modalities to select patients for acute ischemic stroke treatment, and be familiar with indications for endovascular interventions.

**Lecture/Faculty:**
- Indications for Intravenous Alteplase  
  Philip B. Gorelick, MD, MPH, FAAN, Grand Rapids, MI  
- Neuroimaging—the Precision Medicine of Acute Ischemic Stroke  
  David S. Liebeskind, MD, FAAN, Los Angeles, CA  
- Update on Endovascular Intervention for Acute Ischemic Stroke  
  Tudor G. Jovin, MD, Pittsburgh, PA

**Core Competencies:** Medical Knowledge, Patient Care

**Teaching Style:** Case-Based, Didactic

**CME Credits:** 2

**Recommended Audience:** Advanced Practice Provider, General Neurologist, Neurohospitalist, Non-Neurologist, Specialist Neurologist, Trainee, Pharmacist

---

**Course**

**Wednesday, April 25, 2018  3:30 p.m.–5:30 p.m.**

**C166 Cerebrovascular Disease IV: Telestroke**

**Topic:** Cerebrovascular Disease and Interventional Neurology  
**Director:** Eric Anderson, MD, PhD, Gulfport, FL

**Program Description:**
This course will provide a structured education towards the practical incorporation of telestroke into practice. Through case studies presented by physicians already using specific aspects of remote care technology in practice, we will cover the evidence for and clinical applicability of telestroke, telestroke across the care continuum, economics of telestroke, hospital contracting, and reimbursement/financial models.

*This program complements C116: Cerebrovascular Disease I, C129: Cerebrovascular Disease II: Update on Guidance-Based Diagnosis and Management of Hemorrhagic Stroke, C151: Cerebrovascular Disease III: Update on Neuroimaging Modalities and Endovascular Therapies for Acute Ischemic Stroke.*

**Upon Completion:**
Participants will understand the scope of technology employed in telestroke across the continuum, the economics that drive stroke care through telemedicine, as well as the concerns and limitations for the appropriate practice of remote stroke care.

**Lecture/Faculty:**
- Introduction: The Current State of Telestroke  
  Eric Anderson, MD, PhD, Gulfport, FL  
- Telestroke Quality, Integration, and Limitations  
  Lawrence R. Wechsler, MD, FAAN, Pittsburgh, PA  
- The Economics of Telestroke  
  Bart M. Demaerschalk, MD, MSc, FRCPC, Phoenix, AZ

**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

**Recommended Audience:** Advanced Practice Provider, General Neurologist, Neurohospitalist, Non-Neurologist, Specialist Neurologist, Trainee
Program Tracks

Neurohospitalist Track

C177 So You’ve Diagnosed Your Patient with a Neuroinfectious Disease, Now What? Practical Pearls in the Treatment and Management of Neuroinfectious Diseases

Thursday, April 26, 2018 7:00 a.m.–9:00 a.m.

Topic: Infectious Disease
Director: Felicia Chow, MD, San Francisco, CA

Program Description:
This case-based interactive course will focus on the management of patients with infections of the nervous system and associated neurological complications. An interdisciplinary panel of experts from both neurology and infectious diseases will share their approach to challenging neuroinfectious diseases cases. An emphasis will be placed on an up-to-date, evidence-based approach to complicated cases combined with on-the-ground experience from clinical experts in the field.

Upon Completion:
Participants will have increased familiarity and confidence with the evaluation and management of neuroinfectious diseases, including selection of antimicrobial therapy; CNS penetration and neurological toxicities of antimicrobial therapy; timing and duration of corticosteroid therapy for neurological infections; management of common complications of CNS infections (e.g., increased intracranial pressure, hyponatremia, vasculitis); utility of laboratories for monitoring response to therapy.

Lecture/Faculty:
- Case One
  - Kelly Dooley, MD, PhD, Baltimore, MD
  - Usha K. Misra, MD, FAAN, Lucknow, India
- Case Two
  - David Koelle, MD, Seattle, WA
  - Maria A. Nagel, MD, Aurora, CO

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

Teaching Style: Interactive, Expert Panel, Audience Participation, Case-Based

CME Credits: 2

Recommended Audience: Advanced Practice Provider, General Neurologist, Neurohospitalist, Specialist Neurologist, Trainee

C190 Neuro-oncologic Predicaments in the Hospital Setting

Thursday, April 26, 2018 1:00 p.m.–3:00 p.m.

Topic: Neuro-oncology
Director: Na Tosha N. Gatson, MD, PhD, Danville, PA

Program Description:
Emergent issues in neuro-oncology are variable and require timely recognition of their level of acuity. Delays in management and transitions in care could lead to costly outcomes that impact hospital stay as well as patient neurologic function and rehabilitation. This course is formatted as a combination of cases and didactic learning with audience participation to cover relevant acute inpatient issues in neuro-oncology. Topics covered will address the following clinical presentations: increased intracranial pressure, salt-balance, autonomic dysregulation, immunosuppression, cancer treatment effects, stroke, seizure, and acute decline in mental status. Each topic will have a representative case presented, followed by a didactic approach to working through a three-tiered differential, and finish with an evidence-based discussion of management and identification of areas for quality improvement.

Upon Completion:
Participants should be familiar with the differential diagnoses and inpatient management of common and uncommon neuro-oncologic clinical presentations in adults, and identify areas for process improvement in these conditions.

Lecture/Faculty:
- Neuro-oncologic Predicaments in the Hospital Setting
  - Na Tosha N. Gatson, MD, PhD, Danville, PA
  - Javier Gonzalez, MD, Columbus, OH
  - Anthony Noto, MD, Danville, PA

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

Teaching Style: Didactic, Audience Participation, Case-Based

CME Credits: 2

Recommended Audience: Advanced Practice Provider, General Neurologist, Neurohospitalist, Non-Neurologist, Specialist Neurologist, Trainee, oncologist
Thursday, April 26, 2018  1:00 p.m.–5:30 p.m.

**C196 Brain Death Skills Workshop: How to Perform a Brain Death Evaluation, Avoid Pitfalls and Convey the News to the Family** *(registration required)*

**Topic:** Neuro Trauma, Critical Care, and Sports Neurology

**Director:** Panayiotis N. Varelas, MD, PhD, Detroit, MI

**Program Description:**
In 2010, the AAN published straightforward guidance for the declaration of death by neurological criteria (brain death, BD), but policies and practices continue to vary significantly across the US and worldwide, increasing the risk for false brain death declarations and erosion of the public trust on our ability to pronounce death reliably. Therefore, there is a great need for health care providers to improve practices surrounding the declaration of BD.

This workshop will include 3 consecutive sessions: didactics including videos, simulation of BD in mannequins (or difficult cases-vignettes), and question and answer discussion regarding BD controversies and presentation of BD results to families.

**Upon Completion:**
Participants will become familiar with the process of conducting a complete BD evaluation, be able to address difficult cases and avoid pitfalls, and be able to conduct a thorough and compassionate discussion with the relatives of the patient and improve their understanding of BD.

**Lecture/Faculty:**
- Brain Death Evaluation Lecture and Video  
  David M. Greer, MD, FAAN, Boston, MA
- Breakout Session: Mannequin Simulation  
  Faculty
- Breakout Session: Difficult Cases: Vignettes  
  Gene Y. Sung, MD, MPH, Los Angeles, CA
- Breakout Session: Difficult Cases: Vignettes  
  Ariane Lewis, MD, New York, NY
- How to Approach Families and What to Tell Them  
  Ariane Lewis, MD, New York, NY
- Controversies in Brain Death: Questions and Answers/ Discussion  
  Faculty

**Core Competencies:** Patient Care

**Teaching Style:** Audience Participation, Case-Based, Didactic, Interactive, Mannequin Simulation

**CME Credits:** 4

**Recommended Audience:** Non-Neurologist, Specialist Neurologist, Trainee, Advanced Practice Provider, General Neurologist, Neurohospitalist

---

Thursday, April 26, 2018  3:30 p.m.–5:30 p.m.

**C201 Differential Diagnosis of Neurologic Infections**

**Topic:** Infectious Disease

**Director:** Marie Francisca Grill, MD, Scottsdale, AZ

**Program Description:**
Differential diagnosis of patients with possible neurologic infections will be presented to discuss diagnostic considerations, imaging, cerebrospinal fluid interpretation, PCR testing and other microbiologic tests, as well as mimicking disorders. Specific topics will include cases highlighting coverage of encephalitis, meningitis, and myelitis.

**Upon Completion:**
Participants should be able to improve their ability to form a more precise differential diagnosis of possible neurologic infections, and to recognize specific laboratory tests and imaging findings that can guide the differential diagnosis accordingly.

**Lecture/Faculty:**
- Encephalitis  
  Avindra Nath, MD, MBBS, FAAN, Bethesda, MD
- Chronic Meningitis  
  Israel Steiner, MD, Petah Tiqwa, Israel
- Myelopathies  
  Marie Francisca Grill, MD, Scottsdale, AZ

**Core Competencies:** Medical Knowledge, Patient Care

**Teaching Style:** Audience Participation, Case-Based, Interactive

**CME Credits:** 2

**Recommended Audience:** Specialist Neurologist, Trainee, General Neurologist
## Endovascular Treatment of Acute Stroke and Cerebrovascular Disease

**C203**  
**Thursday, April 26, 2018 3:30 p.m.–5:30 p.m.**

**Topic:** Cerebrovascular Disease and Interventional Neurology  
**Director:** Dileep R. Yavagal, MD, FAAN, Miami, FL

**Program Description:**  
Endovascular therapy is now the standard of care in conjunction with IV tPA for acute ischemic stroke. This course will discuss the scientific evidence, as well as tested clinical protocols for stroke systems of care, and clinical case scenarios to drive home critical learning for the student and practitioner. Faculty will also review rapid advances that have occurred in endovascular therapy to aneurysms, AVMs, and dural AV Fistulas. Most notably, faculty will review the most important data including meta-analysis and real-world registry data that have accrued since the landmark RCTs for endovascular mechanical thrombectomy in 2015. Furthermore, faculty will review the indications, safety, and efficacy of several new devices and recent clinical trial data available for endovascular treatment of hemorrhagic CVD. The latest consensus and ongoing trials in the controversial area of carotid stenting and intracranial stenting will also be discussed in detail.

**Upon Completion:**  
Participants will be able to discuss the application of mechanical thrombectomy in AIS as the new standard of care. They will be able to review the latest endovascular techniques for aneurysms, AVMs, and dural AVFs; their indications for application in patients; and scientific evidence from the latest clinical trials. Participants will also be able to discuss how to tailor application of neuroendovascular therapies in individual case scenarios.

**Lecture/Faculty:**  
- Mechanical Thrombectomy with IV Thrombolysis: How to Most Effectively Implement the New Standard of Care for Acute LVO Stroke?  
  Dileep R. Yavagal, MD, FAAN, Miami, FL  
- Current Imaging Selection in Stroke: Within 6 Hours, Wake-up and Beyond  
  David S. Liebeskind, MD, FAAN, Los Angeles, CA  
- Advances in Endovascular Treatment of Brain Aneurysms, AVMs, and Dural AVFs  
  Italo Linfante, MD, Miami, FL  
- Current Indications for Carotid and Intracranial Stenting  
  Dileep R. Yavagal, MD, FAAN, Miami, FL

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

**Teaching Style:** Audience Participation, Case-Based, Didactic, Interactive, Panel Discussion

**CME Credits:** 2

**Recommended Audience:** Advanced Practice Provider, General Neurologist, Neurohospitalist, Specialist Neurologist, Trainee, Stroke, Interventional Neurology

---

## Case Studies in the ICU

**C211**  
**Thursday, April 26, 2018 6:30 p.m.–9:30 p.m.**

**Topic:** Neuro Trauma, Critical Care, and Sports Neurology  
**Director:** Nicholas Joseph Silvestri, MD, FAAN, 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 neurologic 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, Boston, MA  
- Case Studies in Epilepsy and Status Epilepticus  
  Julie Roth, MD, Providence, RI  
- Case Studies in Neuromuscular Disorders in the ICU  
  Nicholas Joseph Silvestri, MD, FAAN, 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

**Recommended Audience:** General Neurologist, Neurohospitalist, Non-Neurologist, Specialist Neurologist, Trainee
**Course**

**C218** Infections of the Nervous System I: Diagnostic Testing of Neurological Infections

**Topic:** Infectious Disease  
**Director:** Tracey Cho, MD, FAAN, Boston, MA

**Program Description:**
This program will provide an overview of the laboratory and imaging studies available for timely and accurate diagnosis of a range of infections of the nervous system. Faculty will provide updates on the appropriate use of currently available tests, including sensitivity and specificity, as well as comment on emerging diagnostic modalities. Case discussions with audience questions will be encouraged.

*This program complements C226: Infections of the Nervous System II: Neuro-ID Emergencies and C239: Infections of the Nervous System III: Advanced Topics in Infectious Neurology, but covers independent topics.*

**Upon Completion:**
Participants should be able to effectively order and interpret laboratory and imaging studies for timely and accurate diagnosis of infections of the nervous system.

**Lecture/Faculty:**
- Diagnostic Laboratory Testing for CNS Infections  
  Michael R. Wilson, MD, San Francisco, CA
- Diagnostic Imaging for CNS Infections  
  Tracey Cho, MD, FAAN, Boston, MA

**Core Competencies:** Medical Knowledge, Patient Care

**Teaching Style:** Case-Based, Didactic, Interactive

**CME Credits:** 2

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

---

**Course**

**C220** Drugs and Toxin-induced Neurologic Emergencies

**Topic:** General Neurology  
**Director:** Sara E. Hocker, MD, Rochester, MN

**Program Description:**
Drugs and toxins can result in a variety of neurologic emergencies. Neurologic emergencies may result from drugs administered in the hospital and the outpatient setting, or from neurotoxic effects of environmentally significant chemical hazards, manufactured drugs, and naturally occurring compounds. Faculty will review specific complications of drug therapies encountered in the intensive care unit, drug-induced movement disorders, and neuro-toxicology emergencies. These categories have significant overlap. The session is expected to be highly case based and interactive and will offer manageable approaches to toxic syndromes rather than an encyclopedic review.

**Upon Completion:**
Participants should be able to evaluate, diagnose, and treat neurologic emergencies resulting from drugs administered in the hospital or from neurotoxic effects of environmentally significant effects of environmentally significant chemical hazards, manufactured drugs, and naturally occurring compounds.

**Lecture/Faculty:**
- Drug-induced Disorders Seen in the ICU  
  Sara E. Hocker, MD, Rochester, MN
- Drug-induced Movement Disorder Emergencies  
  Faculty
- Neurotoxicology and Neurologic Emergencies  
  Faculty

**Core Competencies:** Medical Knowledge, Patient Care

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

**CME Credits:** 2

**Recommended Audience:** Advanced Practice Provider, General Neurologist, Non-Neurologist, Specialist Neurologist, Trainee
Program Tracks

Neurohospitalist Track

Course
Friday, April 27, 2018  1:00 p.m.–3:00 p.m.

C226  Infections of the Nervous System II: Neuro-ID Emergencies

Topic:  Infectious Disease
Director:  Tracey Cho, MD, FAAN, Boston, MA

Program Description:
Infections of the nervous system can present acutely and cause permanent neurologic 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 C218: Infections of the Nervous System I: Diagnostic Testing of Neurological Infections and C239: Infections of the Nervous System III: Advanced Topics in Infectious Neurology, but covers independent topics.

Upon Completion:
Participants should be able to recognize, differentiate, and manage common acute infections of the nervous system.

Lecture/Faculty:
- Meningitis
  Christina Marra, MD, FAAN, Seattle, WA
- Acute Encephalitis: From Infections to Autoimmunity
  Arun Venkatesan, MD, PhD, Baltimore, MD

Core Competencies:  Medical Knowledge, Patient Care
Teaching Style:  Case-Based, Didactic, Interactive
CME Credits:  2
Recommended Audience:  Advanced Practice Provider, General Neurologist, Specialist Neurologist, Trainee

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 C237: Neurologic Complications of Medical Disease, 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 Cardiac Surgeries and Procedures
  Sara E. Hocker, MD, Rochester, MN
- Neurologic Complications of Critical Care
  Christopher Lawrence Kramer, MD, Chicago, IL
- Neurologic Complications of Drug Therapies
  Sara E. Hocker, MD, Rochester, MN

Core Competencies:  Medical Knowledge, Patient Care
Teaching Style:  Audience Participation, Case-Based, Didactic, Interactive
CME Credits:  2
Recommended Audience:  Advanced Practice Provider, General Neurologist, Non-Neurologist, Specialist Neurologist, Trainee
Course

Friday, April 27, 2018  3:30 p.m.–5:30 p.m.

C239  Infections of the Nervous System III: Advanced Topics in Infectious Neurology

**Topic:** Infectious Disease  
**Director:** Tracey Cho, MD, FAAN, 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 neurological Lyme disease and infectious causes of stroke. Case discussions with audience questions will be encouraged.  
*This program complements C218: Infections of the Nervous System I: Diagnostic Testing of Neurological Infections and C226: Infections of the Nervous System II: Neuro-ID Emergencies, but covers independent topics.*

**Upon Completion:**
Participants should be able to identify current diagnostic algorithms and treatment recommendations for a variety of advanced infections and infectious complications affecting the central nervous system.

**Lecture/Faculty:**
- **Brain Abscess**  
  Kelly Baldwin, MD, Danville, PA
- **Neuro-HIV**  
  Felicia Chow, MD, San Francisco, CA

**Core Competencies:** Medical Knowledge, Patient Care

**Teaching Style:** Case-Based, Didactic, Interactive

**CME Credits:** 2

**Recommended Audience:** Advanced Practice Provider, General Neurologist, Specialist Neurologist, Trainee