Neuro-oncology Overview

If your schedule won’t allow you to stay for the whole meeting, maximize your time in Los Angeles and get the most out of a shorter trip with this Neuro-oncology specialty track, with core programming taking place Tuesday to Thursday. Look for education and science covering an array of topics in neuro-oncology.

Sunday, April 22
11:15 a.m.–11:45 a.m.

Tuesday, April 24
7:00 a.m.–9:00 a.m.
C100 Basic Principles of Brain Tumors: For Practice and for Certification
1:00 p.m.–3:00 p.m.
C112 Continuum® Test Your Knowledge: A Multiple-choice Question Review I
1:00 p.m.–3:00 p.m.
S21 Neuro-oncology Platform Session
3:30 p.m.–5:30 p.m.
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

Wednesday, April 25
1:00 p.m.–3:00 p.m.
C149 What Do I Do Now?: Neurologic Consultations in Cancer Patients I
3:30 p.m.–5:30 p.m.
C164 What Do I Do Now?: Neurologic Consultations in Cancer Patients II

Thursday, April 26
7:00 a.m.–9:00 a.m.
C178 Neuro-oncology in 2018: Navigating Current Trends
1:00 p.m.–3:00 p.m.
C190 Neuro-oncologic Predicaments in the Hospital Setting
3:30 p.m.–5:30 p.m.
N6 Neuroscience in the Clinic: Neurologic Complications of Cancer Immunotherapy: A New Frontier in Neuro-Inflammation

Plenary Session
Sunday, April 22, 2018, 9:15 a.m.–12:00 p.m.

Presidential Plenary Session
Topics: Neuro-oncology; Epilepsy/Clinical Neurophysiology (EEG); Child Neurology and Developmental Neurology; General Neurology; Neuromuscular and Clinical Neurophysiology (EMG)
Moderator: Natalia S. Rost, MD, MPH, FAAN, Boston, MA

11:15 a.m.–11:45 a.m.
  Lisa M. DeAngelis, MD, FAAN, New York, NY

Course
Tuesday, April 24, 2018 7:00 a.m.–9:00 a.m.

C100 Basic Principles of Brain Tumors: For Practice and for Certification
Topic: Neuro-oncology
Director: Erin M. Dunbar, MD, Atlanta, GA

Program Description:
This course is high-yield for the initial boards and MOC exams. This course concisely reviews primary brain tumors, including the WHO Classifications, evidenced-based multidisciplinary treatment, symptom management, neuro-oncology emergencies, genetic syndromes, and scenarios for referral.

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).
Program Descriptions

Course

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

Tuesday, April 24, 2018
3:30 p.m.—5:30 p.m.

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:
Tobias Walbert, MD, PhD, Detroit, MI

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

Scientific Platform Session

S21 Neuro-oncology Platform Session

Topic: Neuro-oncology

See complete course description on page 79 »

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Course

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

C149  What Do I Do Now?: Neurologic Consultations in Cancer Patients I

Topic:  Neuro-oncology
Director:  Amy A. Pruitt, MD, Philadelphia, PA

Program Description:
Faculty will present an overview of the evolving spectrum of neurologic complications of immunotherapies and then, using audience response system, discuss 10-12 cases representing such problems as stroke in a cancer patient, complications of new immune checkpoint inhibitors, acute mental status changes in transplant recipients, and neurologic problems of cancer survivors such as chemobrain, secondary neoplasms, and infections. Some cases will address the evolving role of palliative care consultation in the management of these patients.

This program complements C164: What Do I Do Now?: Neurologic Consultations in Cancer Patients II, but covers independent topics.

Upon Completion:
Participants should be able to recognize the complications of PD-1 and CTLA-4 inhibitors and to manage thromboembolic complications in cancer patients. They will also recognize toxicities of drugs used in transplantation, efficiently evaluate patients for CNS infections, and screen for neurologic treatment sequelae in long-term cancer survivors.

Lecture/Faculty:
- Introduction
  Amy A. Pruitt, MD, Philadelphia, PA
- Complications of Cancer Immunotherapies
  Patrick Y. Wen, MD, FAAN, Boston, MA
- What Do I Do Now?: Neurologic Consultations in Cancer Patients I
  Jaishri Blakeley, MD, Baltimore, MD
  Amy A. Pruitt, MD, Philadelphia, PA
  Patrick Y. Wen, MD, FAAN, Boston, MA

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

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

CME Credits:  2

Recommended Audience:  Trainee, General Neurologist, Specialist Neurologist

Course

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

C164  What Do I Do Now?: Neurologic Consultations in Cancer Patients II

Topic:  Neuro-oncology
Director:  Patrick Y. Wen, MD, FAAN, Boston, MA

Program Description:
Faculty will discuss the medical and neurologic management of patients with brain tumors and provide an update on the recent advances in treatment of brain tumors; the recent advances in diagnosis and management of paraneoplastic neurologic syndromes; and approximately 10 cases neurologists may encounter when consulting on cancer patients.

This program complements C149: What Do I Do Now?: Neurologic Consultations in Cancer Patients I, but covers independent topics.

Upon Completion:
Participants should be able to diagnose and treat medical and neurologic complications in brain tumors patients, diagnose and manage paraneoplastic neurologic syndromes, and recognize and treat both common and rare neurologic complications in cancer patients.

Lecture/Faculty:
- Medical Management and Update on Treatments of Brain Tumors
  Patrick Y. Wen, MD, FAAN, Boston, MA
- Paraneoplastic Syndromes of the Nervous System
  Josep O. Dalmau, MD, PhD, FAAN, Barcelona, Spain
- Case Studies in Cancer Patients
  Amy A. Pruitt, MD, Philadelphia, PA

Core Competencies:  Medical Knowledge, Patient Care

Teaching Style:  Case-Based

CME Credits:  2

Recommended Audience:  Advanced Practice Provider, General Neurologist, Specialist Neurologist, Trainee
### Program Descriptions

#### Neuro-oncology in 2018: Navigating Current Trends

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

**Course Code:** C178

**Topic:** Neuro-oncology

**Director:** Maciej M. Mrugala, MD, Phoenix, AZ

**Program Description:**
This program will aim to teach residents, fellows, general neurologists, and junior neuro-oncologists about most recent developments in the field of neuro-oncology. The first talk will cover new experimental therapies showing promise. Patients are frequently asking about these therapies, and critical overview of the data for the practicing clinician will be provided. The second talk will address molecular diagnostics in primary brain tumors. This is an area of active research and many of the molecular markers recently discovered have clinical utility. Practical information about ordering different molecular panels and how to interpret them will be provided. In the third talk we will cover novel surgical techniques being already used or in stages of advanced development, in therapy for primary and metastatic brain tumors. We will emphasize information important for clinicians when advising patients about pros and cons of each therapeutic approach.

**Upon Completion:**
Participants should be able to identify novel developments in the field of neuro-oncology with emphasis on molecular testing, and new emerging therapies.

**Lecture/Faculty:**
- Novel Medical Therapies in Neuro-oncology
  Maciej M. Mrugala, MD, Phoenix, AZ
- Advances in Surgical Treatment of Brain Tumors
  Bernard Bendok, MD, Phoenix, AZ
- Deciphering Molecular Testing in Neuro-oncology
  Seema Nagpal, MD, Palo Alto, CA

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

**Teaching Style:**
Didactic

**CME Credits:**
2

**Recommended Audience:**
Advanced Practice Provider, General Neurologist, Trainee, Neuro-oncologist

#### Neuro-oncologic Predicaments in the Hospital Setting

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

**Course Code:** C190

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

**CME Credits:**
2

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

Neuro-oncology and Immunotherapy: A New Frontier in Neuro-Inflammation

Program Description:
The use of anti-cancer immunotherapies has become widespread in oncology, and multiple agents spanning a variety of mechanisms of action are currently approved, including immune checkpoint inhibitors (anti-CTLA-4, PD-1 and PD-L1 antibodies), CAR-T cells therapy and dendritic cell vaccines. Many of these agents disrupt mechanisms involved in prevention of auto-immunity and maintenance of self-tolerance, or have pro-inflammatory properties. As a result, a wide spectrum of neurologic inflammatory complications have emerged as potential, and at times life-threatening side effects, posing diagnostic and therapeutic challenges that neurologists will be required to address. In this course, the most common immunotherapy complications involving both the CNS and peripheral nervous system will be reviewed, including encephalitis, myelitis, peripheral neuropathies, radiculopathies, neuro-muscular junction disorders and myopathy. The mechanisms underlying these side effects, as well as principles governing immune responses within the nervous system will be discussed, integrated with a review on diagnosis and clinical management.

Upon Completion:
Participants should be able to recognize and treat neurologic complications of anti-CTLA-4, anti-PD-1, anti-PD-L1 antibodies and CAR-T cell therapies and understand the mechanisms of action of such agents, how they can translate into injury to the nervous system and how they can be reversed.

Lecture/Faculty:
- Introduction on Cancer Immunotherapy
  Antonio M. P. Omuro, MD, Miami, FL
- Case Presentation
  Bianca Santomasso, MD, New York, NY
- Neuroscience Background: The Peripheral and CNS Immune System: Physiology and Effects of Anti-Cancer Immunotherapies
  David A. Hafler, MD, FAAN, New Haven, CT

Future Directions
Antonio M. P. Omuro, MD, Miami, FL

Abstract Presentations (Selected in February 2018)
- Abstracts Discussion and Implications for Clinical Practice
  Andreas Felix Hottinger, MD, Lausanne, Switzerland
- Panel Discussion/Questions and Answers
  Faculty

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