Child Neurology and Developmental Neurology 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 Child Neurology specialty track, with core programming taking place Sunday to Tuesday. In addition, look for education and science covering the full gamut of child neurology topics, including a Presidential Plenary Session presentation on the new treatment for spinal muscular atrophy. And don’t miss the popular Frontiers in Child Neurology program on Sunday, April 22, which will combine scientific research with clinical application. See page 51 » for full details. The program also includes a luncheon for those considering a career in the field and a networking reception. The program was one initiative that developed from an ongoing collaboration between the AAN and the Child Neurology Society.

Saturday, April 21
9:30 a.m.–11:30 a.m.
C11 Treatment of Pediatric Multiple Sclerosis in the Current Era
1:30 p.m.–3:30 p.m.
C19 Pediatric Neuro-ophthalmology Update
C22 Stroke in Young Adults and Women

Sunday, April 22
7:00 a.m.–9:00 a.m.
C28 Autism Spectrum Disorders What We Know and Where We Are Going
10:45 a.m.–11:15 a.m.
Presidential Plenary Session: Sidney Carter Award in Child Neurology: Spinal Muscular Atrophy Is a Treatable Neurodegenerative Disease
3:30 p.m.–5:30 p.m.
N1 Neuroscience in the Clinic: Autism Mythbusters

Monday, April 23
7:00 a.m.–9:00 a.m.
C64 Child Neurology I: Pediatric Stroke, MS/Autoimmune
1:00 p.m.–3:00 p.m.
C73 Child Neurology II: Epilepsy and Neuromuscular
3:30 p.m.–5:30 p.m.
C86 Child Neurology III: Headache, TBI/Post-concussion

Tuesday, April 24
1:00 p.m.–3:00 p.m.
C110 Neurologic Complications in Adults with Down Syndrome
3:30 p.m.–5:30 p.m.
C123 Child Neurology: A Case-based Approach

Wednesday, April 25
7:00 a.m.–9:00 a.m.
C141 Integrating Sleep Medicine Concepts into Your Child Neurology Practice
10:55 a.m.–11:15 a.m.
Frontiers in Neuroscience Plenary Session
Pediatric MS: A Unique Window into Environmental and Genetic Risk Factors for MS
1:00 p.m.–3:00 p.m.
S28 Child Neurology and Developmental Neurology Platform Session
3:30 p.m.–5:30 p.m.
S34 Child Neurology and Developmental Neurology Platform Session
ASD and successes and failures of new treatments which are clinically applicable. In addition, faculty will review the utility and interpretation of genetic testing in ASD and recent research advances in the neurobiology of ASD. Faculty will use didactics and/or case-based approaches for each topic. Each faculty member will highlight the latest research that happened in the last year in their topic of focus.

Upon Completion:
Participants should be able to better understand the accurate diagnosis of Autism Spectrum Disorder (ASD), diagnosis and treatment of common medical co-morbidities of ASD, recent clinical trials in ASD and application of new treatments to clinical care, and better understand genetic testing and interpretation in ASD, as well as advances in the neurobiology of ASD. In addition, participants will receive an update on breakthroughs in the field.

Lecture/Faculty:

- Overview and Updates on the Diagnosis and Treatment of Autism Spectrum Disorder (ASD) and Common Medical Comorbidities in ASD
  Rujuta Rajiv Bhatt, MD, Los Angeles, CA
- Clinical Trials in Autism Spectrum Disorder: Successes and Failures of New Treatments
  Shafali Jeste, MD, Los Angeles, CA
- Genetic Testing and Interpretation in ASD and Recent Research Advances in the Neurobiology of ASD
  Julian Martinez, Los Angeles, CA

Core Competencies:  Medical Knowledge, Patient Care

Teaching Style:  Case-Based, Didactic

CME Credits:  2

Recommended Audience:  Advanced Practice Provider, General Neurologist, Non-Neurologist, Specialist Neurologist, Trainee, Research Scientist
**Program Descriptions**

### Neuroscience in the Clinic Session

**N1**  
**Neuroscience in the Clinic: Autism Mythbusters**  
**Topic:** Child Neurology and Developmental Neurology  
**Directors:** Shafali Jeste, MD, Los Angeles, CA  
Sarah J. Spence, MD, PhD, Boston, MA

**Program Description:**  
Rapid advances in our understanding of the underlying neurobiology of autism spectrum disorder (ASD) has prompted more accurate and informed diagnoses, detailed prognostication, and the development of targeted treatment trials. However, these scientific achievements often become overshadowed by community practices that lack evidence or a scientific foundation, leaving patients and caregivers uncertain about best practices. The goal of this symposium is to provide neurologists with clinically relevant scientific updates on autism spectrum disorders (ASD), in order to facilitate more informed dialogues with their patients. We will begin with a representative clinical case, followed by three presentations with paired abstracts on key topics in the autism field, including prediction and diagnostic biomarkers, clinical trials and therapeutics, and advances in genetics.

**Upon Completion:**  
Participants should become familiar with insights on early signs of ASD gained from studies of infants at risk for ASD; the definition of a biomarker and an understanding of the types of biomarkers investigated in ASD; challenges around clinical trial design and implementation in ASD; evidence around pharmacological interventions for ASD and updates from clinical drug trials; and updates on autism genetics, from recommended diagnostic practices to implications for management.

**Lecture/Faculty:**

- Clinical Vignette: Autism Spectrum Disorders  
  Sarah J. Spence, MD, PhD, Boston, MA
- Biomarkers of ASD: From Screening to Clinical Stratification to Quantitative Outcomes  
  Shafali Jeste, MD, Los Angeles, CA
- Clinical Trials and Treatments in ASD: What Works and Why Trials Fail  
  Evdokia Anagnostou, MD, Toronto, ON, Canada
- Updates in Autism Genetics: Clinical and Scientific Implications for Precision Medicine  
  Faculty
- Abstract Presentations: (Selected in February 2018)
- Panel Discussion  
  Faculty

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

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

**CME Credits:** 2

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

### Course

**C64**  
**Child Neurology I: Pediatric Stroke, MS/Autoimmune**  
**Topic:** Child Neurology and Developmental Neurology  
**Director:** Marc C. Patterson, MD, FAAN, FRACP, Rochester, MN

**Program Description:**  
This program focuses on disorders that are frequent and well recognized in adults, but which may be missed and undertreated in children. Stroke in neonates and children is less common than in adults, and its causes and presentations vary. Better diagnostic techniques and standardized treatment protocols have been developed, and will be described. Multiple sclerosis and other immune mediated disorders also occur in children; recent advances in understanding and management of these conditions will be reviewed.

*This program complements C73: Child Neurology II: Epilepsy and Neuromuscular, and C86: Child Neurology III: Headache, TBI/Post-concussion, but covers independent topics.*

**Upon Completion:**  
Participants should be able to recognize the presentations and etiology of stroke, MS, and autoimmune disorders throughout childhood, and recommend and interpret appropriate investigations and implement data-driven management strategies.

**Lecture/Faculty:**

- Cardioembolic Stroke in Children and Young Adults: Open for Discussion or Closing Time?  
  Catherine M. Amlie-Lefond, MD, Seattle, WA
- Multiple Sclerosis and Autoimmune Disorders  
  Jan-Mendelt Tillema, MD, Rochester, MN
- Metabolic Mimics of Stroke and Immune-mediated Disorders  
  Marc C. Patterson, MD, FAAN, FRACP, Rochester, MN

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

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

**CME Credits:** 2

**Recommended Audience:** Specialist Neurologist, Trainee, Advanced Practice Provider, General Neurologist, Non-Neurologist
headache, is better defined. A broad range of treatment options are now available for children afflicted with headache and will be reviewed. Traumatic brain injury and concussion is increasingly recognized as a significant cause of disability in children and adults. The current understanding of these disorders and their management will be reviewed.

This program complements C64: Child Neurology I: Pediatric Stroke, MS/Autoimmune, and C66: Child Neurology III: Headache, TBI/Post-concussion, but covers independent topics.

Upon Completion:
Participants should be able to diagnose and classify common and less frequent headaches and devices for effective management strategy. They should also be familiar with the current understanding of traumatic brain injury and concussion, and be comfortable managing these disorders in children and adolescents.

Lecture/Faculty:
- Episodic Migraine and Episodic Syndromes Associated with Migraine
  Amy Gelfand, MD, San Francisco, CA
- Chronic Migraine and Other Daily Headache Disorders
  Kenneth J. Mack, MD, PhD, FAAN, Rochester, MN
- It’s Not Child’s Play: Traumatic Brain Injury and Concussion
  Christopher Giza, MD, Los Angeles, CA

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

Teaching Style: Case-Based

CME Credits: 2

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

Course

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

C110  Neurologic Complications in Adults with Down Syndrome

Topics: Child Neurology and Developmental Neurology; Aging, Dementia, Cognitive, and Behavioral Neurology

Director: Andrea L. Gropman, MD, Washington, DC

Program Description:
As individuals with chromosome-based disorders are surviving into adulthood, new challenges and neurological pathologies are being seen. Such is the case for individuals with Down Syndrome (DS). This program will bring together experts to discuss the changes and challenges seen as children with DS progress into adulthood. These changes include mood and cognitive disturbances, motor decline and other health complications that impact quality of life, activities of daily living, and family and community supports. However, there is interest in cognitive stabilization in individuals with developmental disabilities including DS, and updates regarding clinical trials will be discussed. Lastly, in an attempt correlate the clinical findings and biomarkers for trials, an understanding of the biology and pathology of the aging brain in DS will be presented.
Program Descriptions

Upon Completion:
Participants should become familiar with the effects of aging on the individual with DS and how that impacts clinical features and care. Participants will also have an appreciation of the biological basis of such changes and recent advances and updates in clinical trials and their effects on this population.

Lecture/Faculty:
- Neurological Aspects of Aging in Down Syndrome: From Mouse to Man
  Andrea L. Gropman, MD, Washington, DC
- Cognitive Stabilization in DS and Clinical Trials Update Faculty
- Neuropsychiatric Complications in Adults with DS
  Ryan Uy, MD, Washington, DC

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

Course

Wednesday, April 25, 2018 7:00 a.m.–9:00 a.m.
C141 Integrating Sleep Medicine Concepts into Your Child Neurology Practice
Topics: Sleep; Child Neurology and Developmental Neurology
Director: Suresh Kotagal, MD, FAAN, Rochester, MN

See complete course description on page 191 »

Plenary Session

Wednesday, April 25, 2018 9:15 a.m.–11:30 a.m.
Frontiers in Neuroscience Plenary Session
Topics: Sleep; MS and CNS Inflammatory Disease; Aging, Dementia, Cognitive, and Behavioral Neurology; General Neurology; Neuro-rehabilitation; Child Neurology and Developmental Neurology
Moderator: Paul M. George, MD, PhD, MSE, Stanford, CA

10:55 a.m.–11:15 a.m.
- Pediatric MS: A Unique Window into Environmental and Genetic Risk Factors for MS
  Emmanuelle Waubant, MD, FAAN, San Francisco, CA

Scientific Platform Session

Wednesday, April 25, 2018 1:00 p.m.–3:00 p.m.
S28 Child Neurology and Developmental Neurology Platform Session
Topic: Child Neurology and Developmental Neurology

Scientific Platform Session

Wednesday, April 25, 2018 3:30 p.m.–5:30 p.m.
S34 Child Neurology and Developmental Neurology Platform Session
Topic: Child Neurology and Developmental Neurology