Friday, October 12 – Sunday, October 14
Child Neurology Career Development Project (CNCDP)

Sunday evening, October 13 – Monday, October 15
John M. “Jack” Pellock Resident Seminar on Epilepsy

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**Monday, October 15**

7:45 am – 5:00 pm

**Neurobiology of Disease in Children (NDC): Tourette Syndrome**
Organizer: Bernard Maria

*Supported by the National Institutes of Health (NIH grant 5R13NS040925-21), the Child Neurology Society, and the Tourette Association of America*

7:45 am - 8:00 am:
Opening Comments/Introduction
Bernard L. Maria, MD, MBA

8:00 am - 10:20 am:
**SESSION I: Clinical Aspects and Diagnosis**
Moderator: Carol Mathews, MD

8:00 am - 8:20 am:
Overview of Tourette Syndrome
Carol Mathews, MD

8:20 am - 8:50 am:
Core Symptoms
Katie Kompoliti, MD

8:50 am - 9:20 am:
Comorbidities
9:20 am - 9:50 am: Epidemiology
Larry Scahill, PhD

9:50 am- 0:20 am: Genetics
Jeremiah Scharf, MD, PhD

10:20 am - 10:30 am: Question and Answer Session

10:30 am - 10:45 am: Coffee Break

10:45 am - 12:35 pm: SESSION II: Pathogenesis
Co-Director and Moderator: Harvey Singer, MD

10:45 am - 11:05 am: Overview of Pathogenesis and Molecular Aspects
Harvey Singer, MD

11:05 am - 11:35 am: Circuitry
Nikole Calakos, MD, PhD

11:35 am - 12:05 pm: Neurochemistry/Neuroanatomy
Brad Schlaggar, MD, PhD

12:05 pm - 12:35 pm: Autoimmunity PANS/PANDAS
Donald Gilbert, MD, MS

12:35 pm - 12:45 pm: Question and Answer Session

12:45 pm - 1:45 pm: Lunch with TAA Presentation
1:45 pm - 4:05 pm:
SESSION III: Therapy
Co-Director and Moderator: Jonathan Mink, MD, PhD

1:45 pm - 2:05 pm:
Overview of Therapeutic Approaches to Tourette Syndrome
Jonathan Mink, MD, PhD

2:05 pm - 2:35 pm:
Behavioral Rx
Shannon Bennett, MD

2:35 pm - 3:05 pm:
Pharmacotherapy
Joseph Jankovic, MD

3:05 pm - 3:35 pm:
Neuromodulation
Michael Okun, MD

3:35 pm - 4:05 pm:
Experimental Therapeutics
Barbara J. Coffey, MD

4:05 pm-4:20pm:
EXECUTIVE SUMMARY OF THE DAY

4:20 pm - 4:55 pm:
SESSION IV: FUTURE DIRECTIONS & Question and Answer Session
Moderator: Bernard L. Maria, MD, MBA

PANELISTS:
- Jonathan Mink, MD, PhD
- Harvey Singer, MD
- Carol Mathews, MD
- Jill Morris, PhD

4:55 pm - 5:00 pm:
Closing Comments
Bernard L. Maria, MD, MBA
8:00 am - 4:30 pm
Association of Child Neurology Nurses

8:00 am - 2:00 pm
Program Coordinators of Child Neurology

2:00 pm - 5:00 pm:
PCN Meeting

6:00 pm - 7:30 pm:
Welcome Reception - Supported by Ann & Robert H. Lurie Children’s Hospital of Chicago

7:45 pm – 9:30 pm:
CNS Legacy Reception

7:45 pm - 8:00 pm:
Welcome and Introduction
Dr. Jonathan Mink, CNS President

8:00 pm - 8:15 pm:
Arnold P. Gold Humanism in Medicine Award
Audrey Foster-Barber, MD

8:15 pm - 8:30 pm:
Roger & Mary Brumback Lifetime Achievement Award
Alfred Spiro, MD

8:30 pm - 8:45 pm:
Roger & Mary Brumback Lifetime Achievement Award
Gerald Erenberg, MD

8:45 pm - 9:00 pm:
Roger & Mary Brumback Lifetime Achievement Award
William Logan, MD

9:00 pm - 9:30 pm:
Closing Comments

7:45 pm - 10:00 pm:
Movement Disorders SIG
Tuesday, October 16

**BREAKFAST SEMINARS:**
7:00 am - 8:15 am:

**Breakfast Seminar 1: Contemporary Clinical, Ethical, and Legal Challenges in the Determination of Brain Death in Infants and Children**
Organizer: Courtney Wusthoff, MD, MS; Stanford University, Palo Alto, CA

*Clinical Challenges in Pediatric Determination of Brain Death*
Matthew Kirschen, MD, PhD; Children’s Hospital of Philadelphia, Philadelphia, PA

*Determination of Brain Death in Infants: Physiology and Clinical Challenges*
Daniel Licht, MD; Children’s Hospital of Philadelphia, Philadelphia, PA

*Ethical and Legal Challenges in the Determination of Brain Death*
Ariane Lewis, MD; NYU Langone Medical Center, New York, NY

*Future of Brain Death Evaluation: Improving Guidelines, Physician Education and Public Understanding*
David Greer, MD, MA, FCCM; Boston Medical Center, Boston, MA

**Breakfast Seminar 2: Neonatal Seizure Trials: What have we learned?**
Organizer: Janet Soul, MDCM, FRCPC; Boston Children's Hospital; Boston, MA

*Elucidating the pathophysiology of neonatal seizures to guide development of novel therapies*
Kevin Staley, MD; Massachusetts General Hospital, Boston, MA

*Bumetanide for Neonatal Seizures: What’s the Evidence?*
Janet Soul, MDCM, FRCPC; Boston Children's Hospital; Boston, MA

*Data from the NEOLEV2 RCT of Levetiracetam vs Phenobarbital as first line treatment for neonatal seizures*
Cia Sharpe, MBChB; Starship Children's Hospital, Auckland, New Zealand

**Breakfast Seminar 3: Inherited Movement Disorders in Children**
Organizer: Jeff Waugh, MD, PhD; UT Southwestern Medical Center, Dallas, TX

*Clinical Characterization of Movement Disorders*
Jeff Waugh, MD, PhD; UT Southwestern Medical Center, Dallas, TX

*Inherited Choreras*
Amy Robichaux Viehsoever, MD, PhD; Washington University School of Medicine, St. Louis, MO
Dyskinesia Syndromes
Claudio Melo de Gusmao, MD; Boston Children’s Hospital, Boston, MA

Inherited Dystonias
Jeff Waugh, MD, PhD; UT Southwestern Medical Center, Dallas, TX

8:30 am - 2:00 pm:
Program Coordinators

9:00 am - 1:45 pm:
ACNN

8:45 am - 9:00 am:
Welcome

9:00 am - 11:45 am:
Symposium II: Contemporary Issues in Rare Diseases
Organizer: Erika Augustine

11:45 am - 12:30 pm:
Meet the Experts - 3 concurrent sessions

12:45 pm - 2:00 pm:
Lunch, Exhibits, & Guided Poster Tours (3)

2:00 pm - 4:00 pm:
Symposium III: Contemporary Management of Spinal Muscular Atrophy:
Transitioning from Reactive Care to Proactive Care in the Molecular Era
Richard Finkel, MD; Nemours Children’s Hospital, Orlando, FL

An SMA Primer for Clinicians (1891 to 2018): A tale of Two Genes
Darryl De Vivo, MD; Columbia University Medical Center, New York, NY

Nusinersen for Treatment of SMA: Who, When and How to Treat
Basil Darras, MD; Boston Children’s Hospital; Boston, MA

Gene Therapy for SMA: How and When to Replace the SMN1 Gene
Jerry Mendell, MD; Nationwide Children’s Hospital, Columbus, OH

Newborn Screening for SMA: Get Ready
Richard Finkel, MD; Nemours Children’s Hospital, Orlando, FL

4:00 pm - 5:30 pm:
Wine & Cheese Reception, Guided Poster Tours (3)
Wednesday, October 17

7:00 am - 8:15 am:  Breakfast, Exhibits, & Guided Poster Tours (3)

8:30 am - 10:15 am: Platform Session I & II

8:30 am - 2:00 pm: Program Coordinators

9:00 am - 1:45 pm: ACNN

10:45 am - 11:00 am: Award Presentation: Junior Members & Research Award Announcements  (Also Blue Bird Circle, CNF Scientific Awards)

11:00 am - 11:30 am: Philip R. Dodge Young Investigator Award Lecture: TBA

11:30 am - 12:15 pm: Bernard Sachs Award Lecture: William Dobyns, MD, PhD

12:30 pm - 1:45 pm:
• Lunch
• Small SIG Meetings
• Best of Show (Moderated Poster Session featuring 10 Best Posters as selected by SIGS, Program Committee and Members)

2:15 pm - 4:15 pm:
Symposium IV: Precision Medicine: Epilepsy, the Next Frontier
Anne T. Berg, PhD; Ann & Robert H Lurie Children’s Hospital, Chicago, IL

Moderator: Annapurna Poduri, MD, MPH; Boston Children’s Hospital, Boston, MA

Up Close and Personal: A Big Data Approach to the Human Epileptic Brain
Jeffrey A. Loeb, MD, PhD; University of Illinois at Chicago, Chicago, IL

Genetic Testing: From Genes, to Variants, to Disease and Back Again
Madhuri Hegde, PhD, FACMG; PerkinElmer, Waltham, MA

Emerging Paradigms for Precision Medicine in Early Life Epilepsy: Bed-to-Bench-to-Bed Work Flow
Alfred George, MD; Northwestern-Feinberg School of Medicine, Chicago, IL
John J. Millichap, MD; Ann & Robert H Lurie Children’s Hospital, Chicago, IL

Clinical-research Infrastructure: Making Precision Medicine a Reality for Early Life Epilepsy and Developmental Brain Disorders
Anne T. Berg, PhD; Ann & Robert H Lurie Children’s Hospital, Chicago, IL
4:30 pm - 5:00 pm:  
*CNS Business Meeting*

4:30 pm - 5:15 pm:  
*Junior Member Seminars*
- Finding A Residency
- Finding A Fellowship
- Getting Your First Job

5:30 pm - 6:15 pm:  
*Meet the Editors*

7:00 pm - 9:00 pm:  
*Closing Reception*

9:00 pm - 11:00 pm:  
*Alumni Receptions*

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**Thursday, October 18**

**BREAKFAST SEMINARS:**

7:00 am - 8:15 am:

Breakfast Seminar 4: *Telemedicine in Pediatric Epilepsy: A Tool for Value Based Care*
Organizer: Sucheta Joshi, MD, MS; Michigan Medicine, Ann Arbor, MI

*Telemedicine in Pediatric Epilepsy: A tool for Value Based Care: Overview and Introductions*
Sucheta Joshi, MD, MS; Michigan Medicine, Ann Arbor, MI

*Emerging Role of Telemedicine in Epilepsy: Why it is Important*
Charuta Joshi, MBBS; Children’s Hospital of Colorado, Aurora, CO

*The AIM-ET Project: Lessons Learned from a Multicenter Telemedicine Quality Improvement Project*
Courtney Wusthoff, MD, MS; Stanford University, Palo Alto, CA

*What Do I Need to Know and Do to Implement Telemedicine in Practice?*
Christina Olson, MD; Children’s Hospital of Colorado, Aurora, CO
**Breakfast Seminar 5: Updates in Pediatric Traumatic Brain Injury**
Organizer: Raquel Bernier Langdon, MD; Children’s National Medical Center, Washington, DC
Co-Organizer: Meeryo Choe, MD; Mattel Children’s Hospital, Los Angeles, CA

*Introduction*
Raquel Bernier Langdon, MD; Children’s National Medical Center, Washington, DC

*Mild Traumatic Brain Injury*
Meeryo Choe, MD; Mattel Children’s Hospital, Los Angeles, CA

*Moderate/Severe Traumatic Brain Injury*
Raquel Farias-Moeller, MD; Children’s Hospital of Wisconsin; Milwaukee, WI

*Chronic Traumatic Encephalopathy (CTE)*
Christopher Giza, MD; Mattel Children’s Hospital, Los Angeles, CA

*Panel Discussion & Questions*
- Raquel Bernier Langdon, MD
- Meeryo Choe, MD
- Raquel Farias-Moeller, MD
- Christopher Giza, MD

**Breakfast Seminar 6: Children’s Sleep in the ICU – What Have we Been Missing?**
Organizer: Renée Shellhaas, MD, MS; University of Michigan, Ann Arbor, MI

*Sleep is a Measureable Maker of Brain Function*
Mark Scher, MD; Rainbow Babies and Children’s Hospital,

*Causes and Consequences of Abnormal Sleep in the Neonatal ICU*
Renée Shellhaas, MD, MS; University of Michigan, Ann Arbor, MI

*Sedation, Sleep Promotion, and Delirium in the Pediatric ICU*
Sapna R. Kudchadkar, MD, PhD; Johns Hopkins University School of Medicine, Baltimore, MD

8:45 am - 9:45 am:
**Hower Award Lecture: Bernard Maria, MD, MBA**

10:00 am - 12:00 pm:
**Symposium V: Critical Care Neurology from the Bedside to the Clinic: Outcomes and Follow-up of Acute Neurologic Injuries**
Arnold J. Sansevere, MD; Boston Children's Hospital, Boston, MA
Co-Organizer: Kristin P. Guilliams, MD; St. Louis Children’s Hospital, St. Louis, MO
Co-Organizer: Réjean M. Guerriero, DO; St. Louis Children’s Hospital, St. Louis, MO
Neurobehavioral Outcomes in Pediatric Cardiac Arrest Survivors: Insights from Therapeutic Hypothermia Trials
Faye Silverstein, MD; Mott Children’s Hospital, Ann Arbor, MI

Traumatic Brain Injury – From the ICU to the Clinic
Réjean M. Guerriero, DO; St. Louis Children’s Hospital, St. Louis, MO

Acute Ischemic Stroke-outcomes and Predictors of Recovery
Laura Lehman, MD; Boston Children’s Hospital, Boston, MA

Identifying and Treating Post Intensive Care Syndrome in Children with Acute Brain Injury
Juan Piantino, MD; Doernbecher Children’s Hospital, Portland, OR

1:00 pm - 4:30 pm:
Symposium VI: Child Neurology Foundation

1:00 pm - 5:00 pm:
Biomedical Writing Workshop