

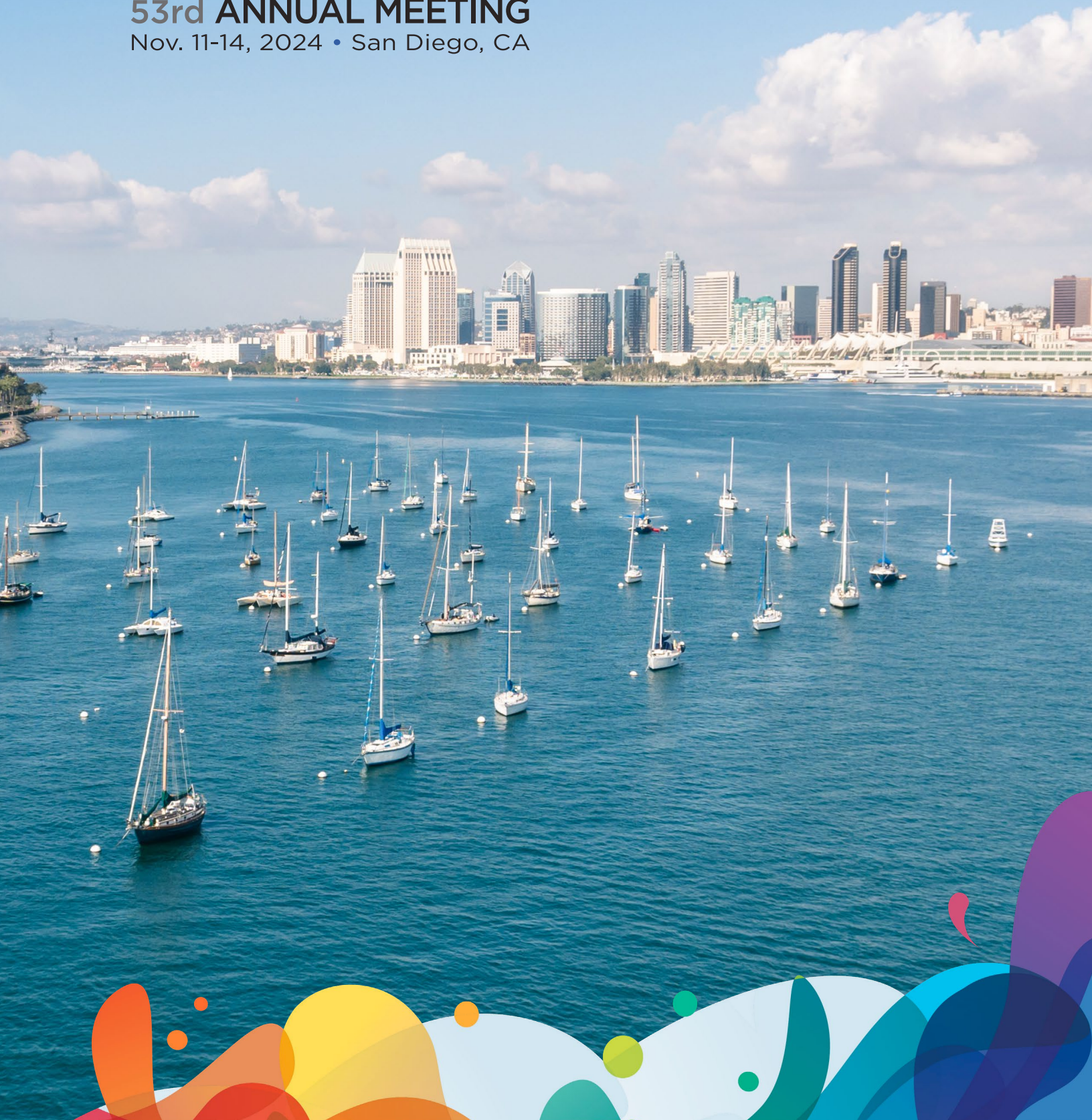


2024

CHILD NEUROLOGY SOCIETY

53rd ANNUAL MEETING

Nov. 11-14, 2024 • San Diego, CA



Thank You, Sponsors!

The Child Neurology Society extends its deepest gratitude to its corporate partners for their ongoing support and commitment, which allows us to advance our mission continuously throughout the year. We also sincerely thank our event sponsors and local hosts whose contributions make our events possible and impactful.

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Child Neurology Society
1915 West Highway 36, Suite 174, Roseville, MN 55113
651-486-9447
nationaloffice@childneurologysociety.org
childneurologysociety.org

Learning Objectives

The 2024 CNS Scientific Program

The CNS Scientific Program is designed for all people interested in childhood-onset neurological and neurodevelopmental conditions, including those interested in clinical care, research advances, and leadership opportunities in this field.

Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the Minnesota Medical Association (MMA) and before is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Minnesota Medical Association designates this live activity for a maximum of *26.5 AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Manage your schedule on your mobile device

The app for the 53rd CNS Annual Meeting serves as your all-in-one event guide by putting everything you need to know right onto your mobile device.

- Customize your conference experience by creating your schedule in advance.
- Find room locations, access abstracts, and connect with peers during the event.
- Browse and search sessions, speakers, and exhibitors.



The EventPilot Conference App is currently available for free in the Apple Store and Google Play.

Download yours today by scanning the QR codes below.

- After downloading the app, use the unique code CNS2024.
- Log in using the four-digit ID found in your registration confirmation email and on your badge.



Apple Store



Google Play

Welcome to San Diego!

PETER B. KANG, MD, FCNS
CNS PRESIDENT



We are meeting in November, a little later in the fall than usual, making San Diego even more appealing as our rendezvous point for 2024. As the years go by and my training recedes into a haze of nostalgia, I increasingly appreciate the unique opportunity presented by the CNS Annual Meeting to reunite with friends from all stages of my career, meet new friends, and learn about the latest advances in our rapidly-evolving field. Mirroring these thoughts, our goal is for the Annual Meeting to buzz with activity from beginning to end, from our formal programming to all the informal conversations that constitute the Brownian motion of child neurology.

The Scientific Selection and Program Planning Committee, chaired by Bhooma Aravamathan, MD, DPhil, and Associate Chair Dave Clarke, MD, have assembled an amazing and forward-looking program with a broad range of topics and speakers. We not only want to update our attendees on the latest developments in child neurology but also equip you with the tools you need to make your

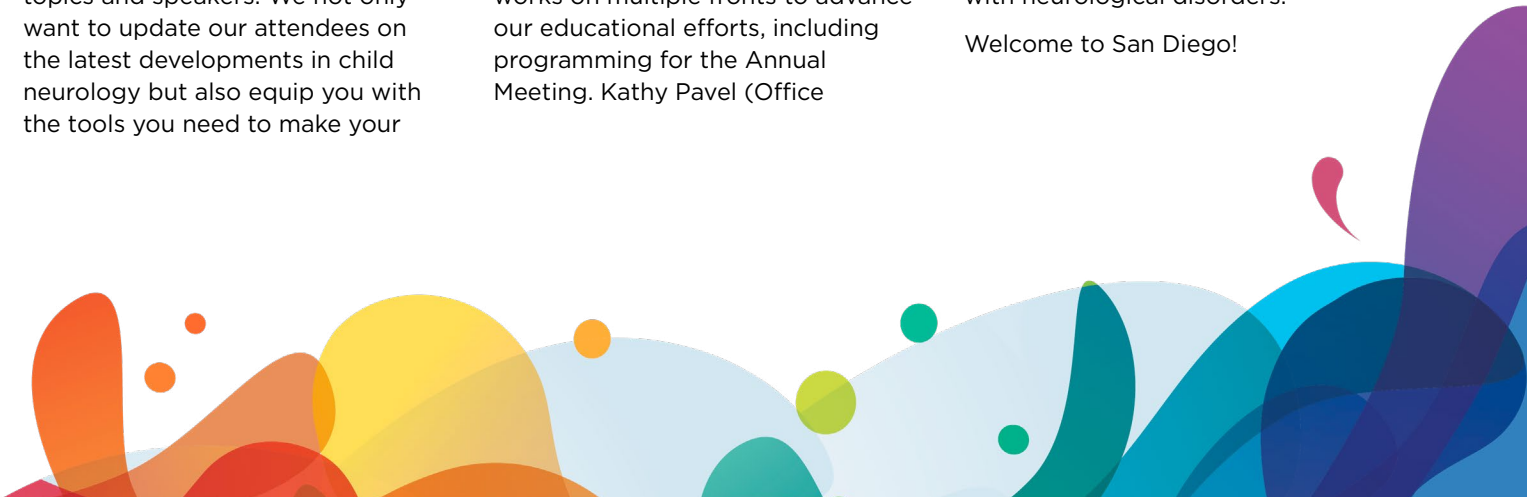
own contributions to our field. Our programming includes symposia, seminars, workshops, SIG meetings, and much more. The CNS continues its evolution to become more active and engaged with the membership year-round, with the Annual Meeting serving as the inspiration for this continual activity.

As I approach the halfway point in my two-year term as CNS president, I have come to appreciate how much we depend on our partnership with the CNS staff for all we do. Monique Terrell is marking her 2nd anniversary as our CEO, working on an amazing transformation of CNS operations and governance. Sue Hussman (Associate Director) orchestrates all the work behind the scenes to make the Annual Meeting a roaring success. Bill Stanton (Membership Manager) shows great enthusiasm and is always ready to answer a member's inquiry. Katelyn Geiger (Education Coordinator) works on multiple fronts to advance our educational efforts, including programming for the Annual Meeting. Kathy Pavel (Office

Administrator) continues to be an amazing resource for everyone. Julianne Bruce (Administrative Coordinator) keeps us organized through all this. As with our membership, our dedicated CNS staff is a blend of familiar faces and new ones, working hand in hand with us as we look to the future.

If this is your first CNS Annual Meeting, know that we are a welcoming, inclusive professional organization whose leadership increasingly reflects the complete range of our membership. Our leaders are well aware that future advances in our field depend on fostering the careers of ALL our child neurologists and trainees and drawing talented medical students into our field. We will thrive as we reach across generations, genders, sexual orientations, races, ethnicities, clinical subspecialties, and scientific boundaries toward our common goal of advancing the health of children with neurological disorders.

Welcome to San Diego!





2024 Child Neurology Society Board of Directors

Thank you for your service on behalf of the CNS.



Peter Kang, MD
President



Bruce Cohen, MD
Immediate Past
President



Lori Jordan, MD
Secretary-Treasurer



Diana Cejas, MD, MPH
Councilor for the South



Alison Christy, MD, PhD
Councilor for the West



Soe Mar, MD
Councilor for the
Midwest

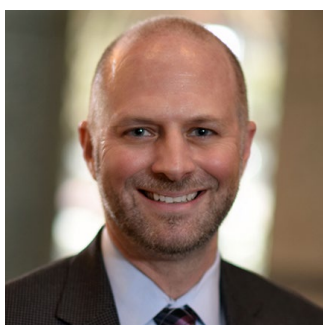


**Yasmin Khakoo, MD,
FAAN, FAAP**
Councilor for the East

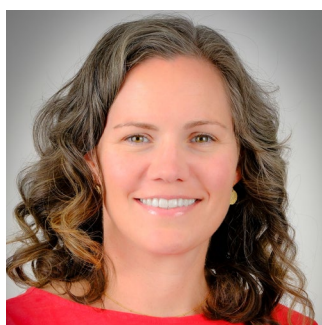
Welcome, Incoming 2025 CNS Board Members



**Yasmin Khakoo, MD,
FAAN, FAAP**
President-elect



Tim Lotze, MD
Councilor for the South



Meghan Candee, MD, MSc
Councilor for the West

Congratulations, 2024 Fellows of the Child Neurology Society

At Child Neurology Society, we're dedicated to supporting your professional growth and solidifying our position as a leading authority in pediatric neurology. To that end, we've established the Fellow of the Child Neurology Society (FCNS) program. We are excited to present this years' FCNS members:

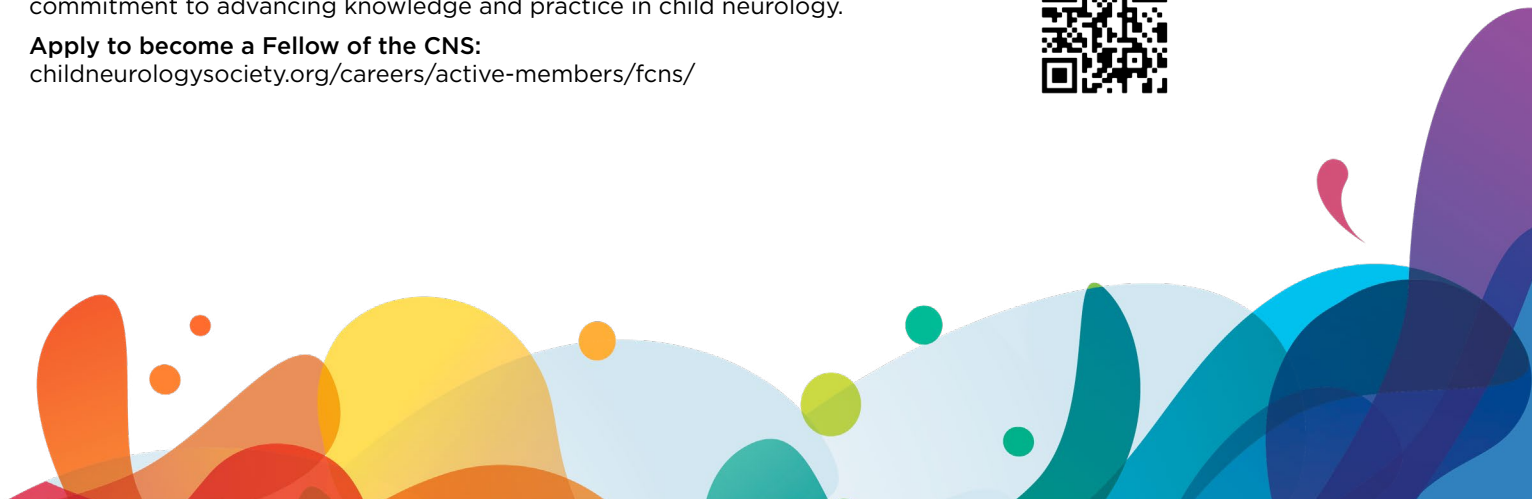
Sonika Agarwal, MBBS, MD
Nusrat Ahsan, MD
Kapil Arya, MD
Miya Asato, MD
Jennifer Bain, MD, PhD
Nigel Bamford, MD
Nancy Bass, MD
Lauren Beslow, MD
Geetha Chari, MD
Alison Christy, MD, PhD
Bruce Cohen, MD
Stephen Deputy, MD
Jay Desai, MD
Elizabeth Doll, MD
Monideep Dutt, MD
S. Ali Fatemi, MD
Marcia Felker, MD
Paul Fisher, MD
Donald Gilbert, MD

William Graf, MD
Andrea Gropman, MD
Adam Hartman, MD
Sucheta Joshi, MD
Peter Kang, MD
Yasmin Khakoo, MD
Susan Koh, MD
Arpita Lakhotia, MD
Monica Lemmon, MD
Kara Lewis, MD
Tara Mangum, DO
Soe Mar, MD
Jaclyn Martindale, DO
Mark Mintz, MD
Manikum Moodley, MD
Lawrence Morton, MD
Vinodh Narayanan, MD
Aaron Nelson, MD
Andrea Pardo, MD

Sonia Partap, MD
Anup Patel, MD
Phillip Pearl, MD
Margie Ream, MD
E. Steve Roach, MD
Bradley Schlaggar, MD
Bruce Shapiro, MD
Renée Shellhaas, MD
Christopher Smyser, MD
Jonathan Strober, MD
Ann Tilton, MD
Doris Trauner, MD
Edwin Trevathan, MD
Nicole Ullrich, MD
Anu Venkat, MD
Max Wiznitzer, MD
Courtney Wusthoff, MD
Britton Zuccarelli, MD

Becoming a FCNS is a prestigious honor that reflects not only expertise but also commitment to advancing knowledge and practice in child neurology.

Apply to become a Fellow of the CNS:
childneurologysociety.org/careers/active-members/fcns/



Schedule at Glance

All meetings/sessions are at the Marriott Marquis San Diego Marina

Dates/Times/Rooms Subject to Change • Event location information is listed in the app.

Sunday, November 10

12:00 PM - 7:00 PM	CNS Registration
12:00 PM - 7:00 PM	Speaker Ready Room
2:00 PM - 7:00 PM	Poster Drop Off
2:00 PM - 9:00 PM	Nursing Room
6:00 PM - 9:00 PM	9th Annual John M. “Jack” Pellock Resident Seminar on Epilepsy Reception and Dinner (Pre-registration Required/REGISTRATION IS FULL)

Monday, November 11

7:00 AM - 7:00 PM	CNS Registration
7:00 AM - 7:00 PM	Nursing Room
7:00 AM - 7:00 PM	Speaker Ready Room
7:00 AM - 7:00 PM	Poster Drop Off
7:00 AM - 8:00 AM	Continental Breakfast
7:30 AM - 5:00 PM	The 9th Annual John M. “Jack” Pellock Resident Seminar on Epilepsy (Pre-registration Required/REGISTRATION IS FULL)
8:00 AM - 11:00 AM	Symposium I: CNF Symposium: Caring for Children with Medical Complexity
8:00 AM - 2:00 PM	Program Coordinators of Child Neurology (PCCN) Annual Educational Conference
11:30 AM - 1:30 PM	Kenneth F. Swaiman CNS Legacy Luncheon
1:45 PM - 3:15 PM	Child Neurology/NDD Educator Symposium - Part 1: Child Neurology/NDD Educator Updates (Formerly PECN)
2:00 PM - 7:30 PM	Exhibits and Poster Review
3:00 PM - 4:00 PM	Workshop #1: FDA 101: The Lifecycle of Drug Development in Pediatric Neurology (Capacity: 60 attendees)
3:00 PM - 4:20 PM	Junior Member/Early Career Lobby Talks
3:15 PM - 5:45 PM	Child Neurology/NDD Educator Symposium - Part 2: Hot Topics in Child Neurology/NDD MedEd (formerly PECN)
4:15 PM - 5:15 PM	Workshop #2: How YOU Can Find NIH Funding Opportunities (On Your Phone)! (Capacity: 60 attendees)
5:15 PM - 6:00 PM	Neuromuscular SIG
5:15 PM - 6:00 PM	Neuro-palliative Care SIG
5:15 PM - 6:00 PM	Functional Neurological Disorders (FND) SIG
5:15 PM - 6:00 PM	Leadership Development and Mentorship SIG

5:15 PM - 6:00 PM	Traumatic Brain Injury (TBI) SIG
5:15 PM - 6:00 PM	Cerebral Palsy SIG
5:15 PM - 6:00 PM	Neonatal Neurology SIG
6:00 PM - 7:30 PM	Welcome Reception
8:00 PM - 10:00 PM	Movement Disorders Video Rounds
8:00 PM - 10:00 PM	Industry-Sponsored Satellite Symposium: Test Your Expertise in Rett Syndrome: A Live Medical Simulation on Diagnosis and Management

Tuesday, November 12

7:00 AM - 7:30 PM	CNS Registration
7:00 AM - 7:30 PM	Nursing Room
7:00 AM - 7:30 PM	Speaker Ready Room
7:00 AM - 8:00 AM	<i>Annals of the Child Neurology Society (ACNS)</i> Editorial Board Meeting
7:00 AM - 8:00 AM	Junior Member/Early Career Lobby Talks
7:00 AM - 8:00 AM	Continental Breakfast
8:00 AM - 10:15 AM	Symposium II: Presidential Symposium: Childhood Neuromuscular Disorders: A New Landscape and a Vision for the Future
8:00 AM - 4:15 PM	Association of Child Neurology Nurses (ACNN) Annual Conference
8:30 AM - 4:00 PM	Program Coordinators of Child Neurology (PCCN) Annual Educational Conference
10:30 AM - 11:00 AM	Martha Bridge Denckla Award Lecture: Shafali Jeste, MD, FAAN
11:15 AM - 12:15 PM	Workshop #3: Diagnostic Challenge: Mimickers of Neuroinflammatory Diseases (Capacity: 40 attendees)
11:15 AM - 12:15 PM	Workshop #4: Clinical Trial Readiness for Rare Neurological Diseases (Capacity: 40 attendees)
11:15 AM - 12:15 PM	Workshop #5: Reviewing Manuscripts: What, When, Why, and How (Capacity: 40 attendees)
11:15 AM - 12:15 PM	Quality SIG
11:15 AM - 12:15 PM	NeuroCritical Care SIG
11:15 AM - 12:15 PM	Cerebral Spinal Fluid Pressure Disorders SIG
11:15 AM - 12:15 PM	Neurodevelopment Disorders SIG
11:15 AM - 12:15 PM	Neuromodulation SIG
11:15 AM - 12:15 PM	International Affairs Committee SIG
11:30 AM - 7:00 PM	Exhibits and Poster Review
12:00 PM - 1:00 PM	Industry-Sponsored Product Theater: Advancements in Rett Syndrome (RTT) Care
12:00 PM - 2:00 PM	Industry-Sponsored Satellite Symposium: Patient, Provider, and Caregiver Connection: Pediatric Myasthenia Gravis - Current Treatment and Emerging Concepts
12:15 PM - 1:45 PM	Lunch and Visit Exhibit Hall
12:30 PM - 1:45 PM	Guided Abstract Tour #1
2:00 PM - 3:15 PM	Seminar 1: Genetic Testing: Essential Skills for Daily Practice
2:00 PM - 3:15 PM	Seminar 2: The Clinician-Educator Path for Child Neurologists
2:00 PM - 3:15 PM	Seminar 3: Clinical Registry Implementation: The How-To and the Value
3:00 PM - 9:00 PM	Poster Pick Up
3:30 PM - 4:45 PM	Seminar 4: Caring for a Person with Cerebral Palsy from Infancy to Adulthood

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.

Schedule at Glance CONTINUED

3:30 PM - 4:45 PM	Seminar 5: Harnessing Technology for Career Growth and Development
3:30 PM - 4:45 PM	Seminar 6: Bridging Academia and Industry to Advance Precision Medicine
5:00 PM - 5:30 PM	CNS Annual Business Meeting
5:00 PM - 6:30 PM	Wine and Cheese Reception
5:00 PM - 7:00 PM	Program Coordinator Social Event
5:00 PM - 7:00 PM	Industry-Sponsored Satellite Symposium: Spotlight on Infantile Spasms: Diagnosis, Treatment, and Beyond
5:30 PM - 7:00 PM	Guided Abstract Tour #2

Wednesday, November 13

7:00 AM - 6:00 PM	CNS Registration
7:00 AM - 6:00 PM	Nursing Room
7:00 AM - 6:00 PM	Speaker Ready Room
7:00 AM - 5:00 PM	Poster Pick Up
7:00 AM - 8:00 AM	Junior Member/Early Career Lobby Talks
7:00 AM - 8:00 AM	Continental Breakfast
8:00 AM - 8:15 AM	CNS, PERF®-CNS, CNF, and ACNN Awards
8:00 AM - 3:15 PM	Association of Child Neurology Nurses (ACNN) Annual Conference
8:15 AM - 8:45 AM	Philip R. Dodge Young Investigator Award Lecture: Fiona M. Baumer, MD, MS
8:30 AM - 4:00 PM	Program Coordinators of Child Neurology (PCCN) Annual Educational Conference
8:45 AM - 9:30 AM	Bernard Sachs Award Lecture: Elizabeth C. Engle, MD
10:00 AM - 11:15 AM	Seminar 7: The Effect of Global Socio-Cultural Factors on Child Neurology Care
10:00 AM - 11:15 AM	Seminar 8: Addressing Gender Disparities in Academic Child Neurology
10:00 AM - 11:15 AM	Seminar 9: Cerebellar Contributions to Neurodevelopment
11:15 AM - 12:30 PM	Lunch
11:30 AM - 12:30 PM	Junior Member/Early Career Lobby Talks
11:30 AM - 12:30 PM	Industry-Sponsored Product Theater: Finding More Answers with Genetic Testing: Maximizing the Diagnostic Yield of Exome Sequencing
11:30 AM - 1:30 PM	Industry-Sponsored Satellite Symposium: Enabling Pediatric Neurogenetics: Answers to 5 Common Questions
12:30 PM - 1:45 PM	Seminar 10: Restoring Function: Management of Functional Neurologic Disorders
12:30 PM - 1:45 PM	Seminar 11: View from The Top: Hiring, Salary, and Promotion in Academia
12:30 PM - 1:45 PM	Seminar 12: Untangling the Impact of Social Stress on Early-life Brain Injury
2:15 PM - 4:00 PM	Platform Session 1
2:15 PM - 4:00 PM	Platform Session 2
2:15 PM - 4:00 PM	Platform Session 3
4:30 PM - 6:00 PM	Junior Member/Early Career Forum and Panel Discussions
5:00 PM - 6:00 PM	Industry-Sponsored Product Theater: Introducing Duvyzat™ (Givinostat)

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.

5:00 PM - 7:00 PM	Industry-Sponsored Satellite Symposium: The Evolving Landscape of Dravet and Lennox-Gastaut Syndromes: A Focus on Early Diagnosis, Rational Polytherapy, and Non-seizure Symptoms
5:00 PM - 7:00 PM	Program Coordinator Social Event
5:30 PM - 7:00 PM	Scientific Selection and Program Planning Committee Meeting
6:00 PM - 7:00 PM	Headache SIG
6:00 PM - 7:00 PM	Fetal Neurology SIG
6:00 PM - 7:00 PM	Clinician Empowerment SIG
6:00 PM - 7:00 PM	Neurogenetics SIG
6:00 PM - 7:00 PM	Neuroimmune Disorders SIG
7:00 PM - 9:00 PM	Closing Gala

Thursday, November 14

7:00 AM - 8:00 AM	Junior Member/Early Career Lobby Talks
7:00 AM - 12:00 PM	CNS Registration
7:00 AM - 12:00 PM	Speaker Ready Room
7:00 AM - 5:00 PM	Nursing Room
7:00 AM - 8:00 AM	Continental Breakfast
8:00 AM - 8:45 AM	Howar Award Lecture: Renée A. Shellhaas, MD, MS
8:00 AM - 11:00 AM	Association of Child Neurology Nurses (ACNN) Annual Conference
9:00 AM - 12:00 PM	Symposium III: Year in Review
12:15 PM - 4:15 PM	Biomedical Writing Workshop
12:15 PM - 4:15 PM	CNS Clinical Research Workshop: Data Quality and Analysis

Exhibits and Poster Reviews

Monday, November 11

2:00 PM - 7:30 PM	Exhibit and Poster Review
6:00 PM - 7:30 PM	Welcome Reception

Tuesday, November 12

11:30 AM - 7:00 PM	Exhibit and Poster Review
12:15 PM - 1:45 PM	Dedicated Exhibit Time
12:30 PM - 1:45 PM	Guided Abstract Tour #1
5:30 PM - 7:00 PM	Guided Abstract Tour #2

CME Credit

CME credits must be claimed at the end of the meeting.

- To request credit, complete the survey form on the CNS Education Center after attending all sessions. Once completed, your certificate will be available in your Education Center dashboard.
- CME credit must be claimed by **December 20, 2024**.

No CME credits for 2024 will be issued for surveys completed after January 31, 2025.

Note: Members and Education Profiles will log in with their CNS log in. All others will log in with their registration email.

PATHLMS.COM/CNS/COURSES/76955





New This Year

Learning Tracks and Learning Formats

Enhance your annual meeting experience with our **Learning Tracks**. Sessions are categorized into a specific track, allowing you to dive deep into your areas of interest. Choose from *Clinical Practice*, *Research Advances*, or *Leadership and Career Development* to tailor your learning journey.

Our sessions are also divided into three **Learning Formats**. Each Seminar is given as a *Didactic Seminar* with traditional lectures or as a *Discussion Seminar* with panels and audience interaction throughout the session. Each *Workshop* relies on small-group discussion to facilitate interactive learning. You can choose the formats that best fit your learning style.

Clinical Practice

Explore data-driven summaries on the latest approaches to diagnosing and managing pediatric neurologic conditions. Learn about the strength of the supporting data and gain insights through illustrative case discussions.

Seminar 1: Genetic Testing: Essential Skills for Daily Practice (*Discussion*)

Seminar 4: Caring for a Person with Cerebral Palsy from Infancy to Adulthood (*Discussion*)

Seminar 7: The Effect of Global Socio-Cultural Factors on Child Neurology Care (*Didactic*)

Seminar 10: Restoring Function: Management of Functional Neurologic Disorders (*Didactic*)

Workshop #3: Diagnostic Challenge: Mimickers of Neuroinflammatory Diseases

Research Advances

Delve into the latest cutting-edge research and discover how these advancements might transform pediatric neurologic care. Topics span basic science, translational

neuroscience, clinical research, and public health research, with a focus on future applications in the field.

Seminar 3: Clinical Registry Implementation: The How-To and the Value (*Didactic*)

Seminar 6: Bridging Academia and Industry to Advance Precision Medicine (*Didactic*)

Seminar 9: Cerebellar Contributions to Neurodevelopment (*Didactic*)

Seminar 12: Untangling the Impact of Social Stress on Early-life Brain Injury (*Didactic*)

Workshop #1: FDA 101: The Lifecycle of Drug Development in Pediatric Neurology

Workshop #4: Clinical Trial Readiness for Rare Neurological Diseases

Leadership and Career Development

Engage in discussions about leadership opportunities, career development, and diverse career paths tailored to various career stages and practice types. Get valuable guidance to advance your professional journey.

Seminar 2: The Clinician-Educator Path for Child Neurologists (*Didactic*)

Seminar 5: Harnessing Technology for Career Growth and Development (*Discussion*)

Seminar 8: Addressing gender disparities in academic child neurology (*Discussion*)

Seminar 11: View from the Top: Hiring, Salary, and Promotion in Academia (*Discussion*)

Workshop #2: How YOU can find NIH funding opportunities (on your phone)!

Workshop #5: Reviewing Manuscripts: What, When, Why, and How

53rd CNS Annual Meeting Scientific Program

Monday, November 11

7:30 AM - 5:00 PM

The 9th Annual John M. “Jack” Pellock Resident Seminar on Epilepsy

Supported by 

(Pre-registration required/REGISTRATION IS FULL)

8:00 AM - 11:00 AM

Symposium I: CNF Symposium: Caring for Children with Medical Complexity

Supported by the Child Neurology Foundation

DESCRIPTION:

The current healthcare system is organized for adults and acute care. Children living with medical complexity do not “fit” into the system; hence, the inherent stress on families and clinicians. Families and children fall through the cracks because of a lack of care coordination and support from the medical system, and physicians are left feeling burnt out and struggling to provide the highest quality of care. This symposium aims to define the challenges of caring for children with medical complexity, provide opportunities to connect and talk openly about these challenges, and discuss innovative solutions. Insights will be presented from the perspectives of patients, caregivers, and medical providers.

ORGANIZER:

M. Scott Perry, MD
Cook Children's

SPEAKERS AND PANELISTS

Welcome

M. Scott Perry, MD
Cook Children's

Patient and Caregiver Perspective:

What You Want Your Providers to Know

Christina Vargas
Parent (pre-recorded video)

Activity

M. Scott Perry, MD
Cook Children's

Clinical Methods of Providing Complex Care

John R. Mytinger, MD
Nationwide Children's

Using Technology to Make Caring Easier

Anne Marie Morse, DO, FAASM
Geisinger Health

Innovative Programs: Finding Limited Resources

Jessica Nickrand, PhD
Child Neurology Foundation

Monika Jones, JD, CNP
Pediatric Epilepsy Surgery Alliance

Preparing for Transition of Care

Ahmed T. Abdelmoity, MD, FAAP, FAES
Children's Mercy, Kansas City

Jean-Baptiste Le Pichon, MD, PhD, FAAP
Children's Mercy, Kansas City

Case Study Scenarios

M. Scott Perry, MD
Cook Children's

Closing Remarks

M. Scott Perry, MD
Cook Children's

LEARNING OBJECTIVES

As a result of this educational session, participants will:

- Better understand the challenges faced by patients with medical complexities in a variety of scenarios.
- Be empowered to incorporate innovative solutions to caring for children with medical complexity into their practice.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- The use of technology for caring for children with medical complexity.
- Transitioning the care of children with medical complexity.

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.

Monday, November 11 CONTINUED

11:30 AM – 1:30 PM

Kenneth F. Swaiman CNS Legacy Luncheon

Awards Presented:

2024 Bhuwan Garg High School Student Neuroscience Research Prize

Allison Duh

2024 Training Director Award

Nancy Bass, MD

2024 Bernard D'Souza International Fellowship Award

Thembi Katangwe-Chirwa, MBBS (Mw), MMED (UNIMA), FCPaed (SA), Cert Neuro Paeds (SA), MPhil Neuro Paeds (SU)

Bolivar Quito-Betancourt, MD, Pediatric Neurologist

2024 Arnold P. Gold Foundation Humanism in Medicine Award

Dave F. Clarke, MBBS, ABPN, ABCN, FAES

2024 Roger and Mary Brumback Lifetime Achievement Awards

Roy D. Elterman, MD

Donna Ferriero, MD, MS

1:45 PM – 5:45 PM

Child Neurology/NDD Educator Symposium (formerly PECN)

1:45 PM – 3:15 PM

Part 1: Child Neurology/NDD Educator Updates

Introduction and Agenda

Nancy Bass, MD
Children's Wisconsin
Medical College of Wisconsin

Introduction to the Child Neurology Educators Committee (CNEC)

Committee Membership/Working Groups

Match Report/Preference Signaling and the Match Update

Margie Ream, MD, PhD
Nationwide Children's Hospital
Ohio State University College of Medicine

Program Directors Forum

Danny Rogers, MD, PhD
University of New Mexico

Rachel Gotlieb-Smith, MD, MHPE
University of Michigan

Neurodevelopmental Disabilities Update

Miya Asato, MD
Johns Hopkins University
Kennedy Krieger Institute

Genomics Curriculum

Kuntal Sen, MD, FACMG
Children's National Hospital
GWU School of Medicine and Health Sciences

Report from Neurology RRC

Howard Goodkin, MD, PhD
University of Virginia

CNCDP-K12 Report

Brad Schlaggar, MD, PhD
Johns Hopkins University
President and CEO Kennedy Krieger Institute

Minority Research Scholars Program

Erika Augustine, MD, MS
Johns Hopkins University
Kennedy Krieger Institute

Updates AAP Section of Pediatric Neurology

Tim Lotze, MD
Baylor College of Medicine

Updates AAN Section of Child Neurology

Donald Gilbert, MD, MS
University of Cincinnati College of Medicine

3:15 PM – 5:45 PM

Part 2: Hot Topics in Child Neurology/NDD MedEd

DESCRIPTION:

Join us for an engaging session surrounding hot topics in the growing world of child neurology education.

- Discover how competency-based education is revolutionizing the way we approach child neurology training and gain valuable insights into fostering competence and excellence among the child neurologists of the future.
- Explore the thought-provoking discussion on residency unionization, shedding light on its implications for both trainees and educators alike.
- Gain a deeper understanding of the challenges and opportunities presented by this evolving aspect of medical training.

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.

The session will culminate in lively discussions and networking opportunities at our multiple speed-networking tables, where attendees will have the chance to connect with experts in residency education. Take advantage of this unique platform to pose questions, exchange ideas, and forge meaningful connections with fellow attendees and leaders in academic education. Tables will be topic-centered to include unique considerations for the small training program, tips for starting a neurodevelopmental disabilities program, residency director pearls, and wellness initiatives.

Whether you're a seasoned professional or just starting your journey into academic education, our session offers something for everyone. Do not miss this invaluable opportunity to expand knowledge, exchange perspectives, and connect with peers at the forefront of child neurology education. Join us and be part of the conversation shaping the future of our field.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Define competency-based medical education (CBME) and understand the current status of implementation of CBME in child neurology
- Analyze the potential benefits and challenges associated with residency unionization from the perspective of the resident, faculty, institution, and healthcare system.
- Describe solutions to educational leadership challenges that have been successfully implemented at a variety of institutions.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Identify changes I could make in my current training programs related to implementation of competency-based medical education.
- Gain an understanding of the advantages, disadvantages, and healthcare-system-level impact of resident unionization.
- Identify potential solutions to common education leadership challenges, such as supporting resident wellness and completing annual ACGME requirements, that have been successfully implemented at other programs and consider how these could be adapted to benefit my own program.

ORGANIZERS:

Nancy Bass, MD
Children's Wisconsin
Medical College of Wisconsin

Margie Ream, MD, PhD, FAAN
Nationwide Children's Hospital
Ohio State University College of Medicine

SPEAKERS AND PANELISTS

ACGME Competency Based Education
Kathryn Xixis, MD
University of Virginia

Residency Unionization
Rachel Gottlieb-Smith, MD, MHPE
University of Michigan

Medley of MedEd Hot Topics: Speed Networking

Table 1: Trials and Tribulations of the Small Training Program
Adam Wallace, MD
University of Wisconsin

Nancy Bass, MD
Children's Wisconsin
Medical College of Wisconsin

Table 2: Starting a Neurodevelopmental Disability Program
Miya Asato, MD
John Hopkins University
Kennedy Krieger Institute

Anuja Jindal, MD, MPH
Rady Children's Hospital
University of California San Diego

Table 3: Residency Director Pearls
Meeryo Choe, MD, FAAN
UCLA Division of Pediatric Neurology

Margie Ream, MD, PhD, FAAN
Nationwide Children's Hospital
Ohio State University College of Medicine

Table 4: Wellness and Team Building Initiatives
Aimee Sato, MD
Seattle Children's/UW Medicine

Robert Thompson Stone, MD, FAAN
University of Rochester

Medical Student Networking Session

2:00 PM - 7:30 PM
Exhibits and Poster Review

3:00 PM - 4:00 PM

Workshop #1: FDA 101: The Lifecycle of Drug Development in Pediatric Neurology

(Capacity: 60 attendees)

TRACK

Research Advances

DESCRIPTION

Pediatric neurology is in a new era of novel therapeutic discovery. The number of investigational new drugs (INDs) being evaluated is growing rapidly, with >1000 actively enrolling interventional studies for children with neurologic disorders, per clinicaltrials.gov. It

Monday, November 11 CONTINUED

is critical for the pediatric neurology community to understand how drugs are developed, evaluated, and approved so they can be informed participants and drivers of high-impact clinical trials to improve care for these patients. This workshop will include dynamic case-based discussions of recent approvals in pediatric neurology as a framework to elucidate the lifecycle of drug development from the perspectives of physicians at FDA who review INDs and new drug applications, and from an academic pediatric neurologist designing clinical trials testing novel therapeutics. Participants will be able to ask questions about the role of FDA and process of drug development, with the overall aim to highlight the growing need for education and experience with evaluation of novel medical products to maximize potential for scientific progress and bring safe and effective therapies to children with neurologic disease.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Define the role of FDA in drug development.
- Describe clinical trial design and regulatory considerations for evaluating novel therapeutics

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- The evaluation of novel therapeutics for patients with neurologic disease.
- Participation in clinical trials for patients with neurologic disease.

ORGANIZER

Elizabeth Duke, MD
US Food and Drug Administration
Oncologic Diseases

DISCUSSION LEADERS

Emily R. Freilich, MD
US Food and Drug Administration
Center for Drug Evaluation and Research

Elizabeth Duke, MD
US Food and Drug Administration
Oncologic Diseases

Janet Soul, MDCM, FRCPC
Harvard Medical School
Boston Children's Hospital

4:15 PM - 5:15 PM

Workshop #2: How YOU Can Find NIH Funding Opportunities (On Your Phone)!

(Capacity: 60 attendees)

TRACK

Leadership and Career Development

DESCRIPTION

Have you ever wondered how to navigate tons of web pages to find the most appropriate NIH funding opportunities? Would you like an NIH staff person to walk you through the process of finding funding opportunities for your next grant application, particularly those relevant to your specific career and research interests and goals? Do you know that there are funding opportunities specifically designed to increase the diversity of the neuroscience workforce? Do you have an interest in health disparities and equity research in pediatric neurology? How about global pediatric neurology research?

Please join this skills session, where NIH staff will walk you through the process of finding funding opportunities. This information is useful at all career stages. The workshop will be run in small groups (at tables), where a team of NIH program Directors will show you, using your laptop or cell phone, how to make your searches more efficient and targeted to your career and research goals. You will walk away with useful web pages in your search history or bookmarks. Tables will be topic-specific, but there will be time for at least three rotations to different tables. Topics will include general NIH funding opportunities and helpful new grant-related websites, training grants and workforce diversity, research networks, and health disparities/global health.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Use the NINDS website to search for relevant funding opportunities and other critical information about submitting grants to NINDS (relevant to themselves, their mentors, and their trainees) with greater efficiency.
- Know where to access helpful information about aspects of grant submission, including timelines, review process, and funding decisions.
- Access information and guidance about recent NIH initiatives to promote diversity, equity, and inclusion in researchers and participants.

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Using the NINDS website to search for funding opportunities (relevant to me, my mentors, and my trainees) with greater efficiency and relevance, increasing my ability to submit more NIH-targeted and focused grant applications.
- Understanding recent NIH initiatives to incorporate
- research methods and personnel that address diversity, equity, and inclusion gaps, particularly for groups identified as experiencing health disparities, thus increasing the inclusion of diverse backgrounds in the neuroscience workforce while supporting the next generation of investigators and enhancing my ability to propose research topics that reflect the national and global disease burdens.

ORGANIZER

Adam L. Hartman, MD
Division of Clinical Research, NINDS/NIH

DISCUSSION LEADERS

Adam L. Hartman, MD
Division of Clinical Research, NINDS/NIH
Kristi Hardy, PhD
Division of Clinical Research, NINDS/NIH
Nicole Farhat, CRNP
Division of Clinical Research, NINDS/NIH
Letitia Weigand, PhD
Office of Training and Workforce Development,
NINDS/NIH

6:00 PM - 7:30 PM

Welcome Reception

8:00 PM - 10:00 PM

Movement Disorder Video Rounds

illumina®

LUNCH SYMPOSIUM

Date/Time:

Wed, November 13, 2024
11:30 a.m. to 1:30 p.m.

Location:

Marriott Marquis
San Diego Ballroom A



Enabling Pediatric Neurogenetics: Answers to 5 Common Questions

Program Objectives

- Learn to incorporate genetic testing into neurology practice by tailoring to institutional resources
- Compare advantages and disadvantages of different genetic testing options in various clinical scenarios
- Integrate genetic testing results into patient care management
- Support patients and families through the genetic testing process

Program Description

Genetic testing in child neurology has increased dramatically in the past decade. With the introduction of any test, however valuable, comes questions of how best to integrate responsible testing into the clinical workflow. This session will be a practical guide to implementing genetic testing in your neurology practice, demystifying some of the common misconceptions. Meet leaders in child neurology and learn how they have leveraged the power of genetic testing while minimizing potential barriers. Following this session, child neurologists will recognize important considerations associated with genetic testing for their patients.

Lunch Served* | Register Now



or register at the door

* Disclaimer: This is a non-CME session. Lunch is limited to first come first serve. As a friendly reminder, HCPs from Vermont may not partake in the meals and beverage. Thank you for helping us comply with the Sunshine Act and other transparency laws.

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Tuesday, November 12

8:00 AM - 10:15 AM

Symposium II: Presidential Symposium: Childhood Neuromuscular Disorders: A New Landscape and a Vision for the Future

DESCRIPTION

This symposium will provide an advanced look at recent and future developments in the diagnosis and treatment of neuromuscular disorders in childhood. The field of neuromuscular disorders has been transformed in recent years by numerous new therapies and diagnostic technologies, and innovation continues at an exuberant pace. The target audience includes practicing child neurologists, trainees, allied health professionals, and scientists. The course will begin with a review of recently approved therapies, selected clinical trials, and cutting-edge diagnostic approaches. As it delves deeper into therapeutic development, the course will then show the arc of preclinical therapeutic development, clinical trial readiness, IND submission, and clinical trial conduct, using examples from specific neuromuscular disorders. Ethical issues will be discussed in research and clinical contexts, as well as the role of evidence-based approaches to medical decision-making. By the end of the session, attendees will know current practices in pediatric neuromuscular medicine, understand how novel therapies are developed, and see how novel therapies and novel clinical practices could develop in the future.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Be familiar with novel therapies for neuromuscular disorders that have been recently approved by the FDA.
- Learn about strategies to overcome challenges in preclinical development, regulatory filings, and clinical trials for pediatric neuromuscular disorders.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Prescribing novel neuromuscular therapies and counseling families regarding different stages of research participation.
- The use of evidence-based approaches to therapeutic selection and implementation.

ORGANIZER

Peter B. Kang, MD
University of Minnesota

Introduction

Peter B. Kang, MD
University of Minnesota

SPEAKERS AND PANELISTS

New Approaches to Neuromuscular Diagnosis

Peter B. Kang, MD
University of Minnesota

The Convergence of Preclinical and Clinical Trial Readiness Studies in Collagen VI-related Muscular Dystrophy

A. Reghan Foley, MD
National Institute of Neurological Disorders and Stroke

Preclinical Therapy Development and Clinical Trial Results for X-linked Myotubular Myopathy

James Dowling, MD, PhD
Hospital for Sick Children

Navigating Two Major Hurdles in Therapeutic Development: IND Submissions and Ethical Issues

Megan A. Waldrop, MD
Nationwide Children's Hospital

Recently Approved Therapies and Those in Advanced Stage Clinical Trials

Hugh J. McMillan, MD, MSc
Children's Hospital of Eastern Ontario

An Evidence-based Approach to Clinical Decision Making in Pediatric Neuromuscular Disorders

Maryam Oskoui, MD, MSc
McGill University
Montreal, Quebec

NIH Strategic Planning and Funding for Muscular Dystrophy and Other Rare Disease Research

Glen Nuckolls, PhD
National Institute of Neurological Disorders and Stroke

Panel discussion and Q&A

10:30 AM -11:00 AM

2024 Martha Bridge Denckla Award Lecture

Supported by



Baby Steps to Breakthroughs in Neurodevelopmental Disorders

Shafali Jeste, MD, FAAN
Chief of Neurology
Children's Hospital Los Angeles
University of Southern California
Los Angeles, CA

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.

11:15 AM - 12:15 PM

Workshop #3: Diagnostic Challenge: Mimickers of Neuroinflammatory Diseases

(Capacity: 40 attendees)

TRACK

Clinical Care

DESCRIPTION

Autoimmune encephalitis and other neuroinflammatory diseases are increasingly recognized in children. However, other mimickers of neuroinflammatory diseases are rare and can be overlooked. The differential diagnosis can be broad for children who present with symptoms of developmental regression, cognitive changes, and new onset psychiatric symptoms. These diagnoses can include genetic disorders, inborn errors of metabolism, infections, autoimmune encephalitis, and psychiatric disorders. We will discuss the diagnostic evaluation for suspected autoimmune encephalitis along with illustrative cases to help guide clinicians in approaching a patient with suspected autoimmune encephalitis and recognizing and diagnosing alternate diagnoses.

Careful and comprehensive diagnostic evaluation is necessary for children with suspected autoimmune encephalitis, as is improving understanding of diagnostic testing, including interpretation of results to help guide diagnosis and management. This topic is relevant to all child neurologists, as due to the increased recognition of autoimmune neuroinflammatory diseases, practitioners will encounter patients with suspected autoimmune encephalitis.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Evaluate a patient with suspected neuroinflammation.
- Recognize when to evaluate for other conditions that can mimic neuroinflammatory diseases.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Diagnostic studies in children with suspected neuroinflammatory diseases.
- Understanding pearls and pitfalls in ancillary test results for neuroinflammation and red flags for a non-neuroinflammatory condition.

ORGANIZER

Grace Gombolay, MD, MSC
Emory University
Children's Healthcare of Atlanta (CHOA)

DISCUSSION LEADER

Melissa Wright, MD
Primary Children's Hospital Utah
University of Utah

Lydia Marcus, MD
University of Alabama-Birmingham

Varun Kannan, MD
Emory University School of Medicine
Children's Healthcare of Atlanta

J. Alfredo Caceres, MD
Kennedy Krieger Institute
Johns Hopkins University

Introduction

Approach to Suspected Autoimmune Encephalitis:

Panel

Case 1: A teenage girl with altered mental status and anorexia: Cobalamin C deficiency

Case 2: Mimicker of ADEM – Aicardi Goutieres Syndrome

Case 3: POLG presenting as NORSE

Case 4: When an Infection Turns Out to Be Genetic

Discussion and Questions

11:15 AM - 12:15 PM

Workshop #4: Clinical Trial Readiness for Rare Neurological Diseases

(Capacity: 40 attendees)

TRACK

Research Advances

DESCRIPTION

The advancement of precision therapies hinges upon the expanding capabilities of genetic testing, a deeper understanding of disease mechanisms, and a systematic approach to the natural history of rare neurological diseases in children. In this seminar, we delve into the intricate landscape of investigator-initiated gene therapy development, with a specific focus on the critical aspect of clinical trial readiness. Clinical trial readiness stands as a pivotal milestone, beginning with a thorough understanding of disease natural history that then enables the selection and development of clinical research tools essential for designing efficient clinical trials. We aim to demystify this concept by providing a comprehensive checklist and engaging in discussions, drawing from the collective expertise of our speakers who possess firsthand experience in rare neurological disorders. Through the lens of conditions such as AADC deficiency, giant axonal neuropathy, and hereditary spastic paraplegia, we will navigate the challenges encountered in the pursuit of clinical trial readiness. This includes 1) defining the phenotypic spectrum through cross-sectional analyses in a geographically dispersed patient population, 2) opportunities to learn from 'extreme' phenotypes, 3) understanding patient and caregiver priorities, 4) designing and creating critical resources for longitudinal natural history studies, 5) using natural

Tuesday, November 12 CONTINUED

history data to inform the therapeutic window and endpoints in interventional studies, 6) maximizing learnings from first-in-human phase 1/2 studies, and 7) expanding to pivotal studies and other avenues for sustained access to therapy and continued evaluation. Our session goes beyond theoretical discourse, offering a practical framework for establishing clinical trial readiness. We explore how child neurologists specializing in rare diseases can leverage these principles to enhance both clinical care and research. We look forward to lively discussions as we portray the complexities of this field, highlight the value of clinical expertise, empower participants, and work towards advancements in the treatment of rare neurological disorders.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Define clinical trial readiness for rare neurological diseases.
- Identify key challenges in the development of gene therapies for rare neurogenetic and neurodegenerative diseases.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Identifying changes in rare neurological diseases.
- The developing clinical outcome measures for rare neurological diseases.

ORGANIZER

Darius Ebrahimi-Fakhari, MD, PhD
Boston Children's Hospital
Harvard Medical School

DISCUSSION LEADERS

Toni S. Pearson, MBBS
Nationwide Children's Hospital
The Ohio State University

Darius Ebrahimi-Fakhari, MD, PhD
Boston Children's Hospital
Harvard Medical School

Diana Bharucha-Goebel, MD
Children's National Hospital
George Washington School of Medicine and Health Sciences
NINDS/NIH

Xilma R. Ortiz-Gonzalez, MD, PhD
Children's Hospital of Philadelphia

11:15 AM - 12:15 PM

Workshop #5: Reviewing Manuscripts: What, When, Why, and How

(Capacity: 40 attendees)

TRACK

Leadership and Career Development

DESCRIPTION

The session will begin with a brief introduction to reviewing manuscripts, followed by a moderated panel discussion with editors from each of the major child neurology journals. The session will conclude with a small-group, hands-on activity in which participants will do a group review of a sample manuscript. Participants will be provided with a helpful packet of review resources to take home.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Explain why publishing papers and peer review are important.
- Have a systematic approach to peer review a manuscript.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- When and how to submit a manuscript.
- When and how to perform peer review,

ORGANIZER

Ariel Lyons-Warren, MD, PhD
Baylor College of Medicine
Texas Children's Hospital

MODERATOR

Ariel Lyons-Warren, MD, PhD
Baylor College of Medicine
Texas Children's Hospital

DISCUSSION LEADERS

Marc C. Patterson, MD
Mayo Clinic Children's Center

Yasmin Khakoo, MD, FAAN, FAAP
MSK Kids at Memorial Sloan Kettering Cancer Center
Weill Cornell Medical College

Courtney J. Wusthoff, MD, MS
University of California, Davis, School of Medicine

E. Steve Roach, MD
University of Texas, Dell Medical School

Charu Venkatesan, MD, PhD
Cincinnati Children's Hospital Medical Center

Dawn Gano, MD, MAS
University of California, San Francisco

11:30 AM - 7:00 PM

Exhibits and Poster Review

12:30 PM - 1:45 PM

Guided Abstract Tour #1

DESCRIPTION

It is important for all practitioners to stay up to date on the latest and most cutting-edge findings in the field. In this session, we will describe the most exciting research findings in our field from the past year that have yet to make it to the published literature. Attendees will get to hear about these findings first, before they hit journals. These findings will cover topics including new treatments or diagnostics, pathophysiology, and assessments of our current practice patterns.

GAT1-1 Kent Christopherson, PhD

Atidarsagene Autotemcel (Autologous Hematopoietic Stem Cell Gene Therapy) Preserves Cognition, Language, and Speech and Slows Brain Demyelination and Atrophy in Early-onset Metachromatic Leukodystrophy

GAT1-2 Maria T. Acosta P., MD

Magnetic Resonance Imaging Derived Biomarkers After Gene Therapy in a Controlled GM1 Gangliosidosis Cohort

GAT1-3 Danny Rogers, MD, PhD

Essential Child Neurology Training: A Program Director Consensus

GAT1-4 Levi Kaster

Utilizing Large-Language Models to Extract Patient Verbal and Ambulatory Status from Multi-Institutional and Multi-Specialty Clinical Notes

T1-5 Wendy Qi

Connectivity During Language Processing Differs in Self-Limited Epilepsy with Centrottemporal Spikes and is Associated with Phonological Awareness

2:00 PM - 3:15 PM

Seminar 1: Genetic Testing: Essential Skills for Daily Practice

TRACK/FORMAT

Clinical Care/Discussion Format

DESCRIPTION

The convergence of discoveries in neurotherapeutics, advances in genomic sequencing, and limited access to medical genetics expertise has created an imperative for both practicing and in-training child neurologists to incorporate genetics into their daily clinical toolbox. Despite this imperative, most child neurologists have limited genetics training, hindering their ability to care for patients and teach and mentor current residents to order and interpret genetic tests and counsel families.

This seminar will address this gap based on the results of two recent surveys (Sen et al., PMID: 35656773; Gottlieb-Smith et al., PMID: 38217941) categorizing child neurologists' educational needs and best models for developing a national neurogenetics curriculum.

With guidance from Child Neurology Society leadership, a group of dual-trained neurogeneticists and pediatric neurologists with expertise in rare disorders developed 15 case-based, interactive neurogenetics learning modules to be distributed to CNS membership. These modules are designed to be delivered by child neurology facilitators, including those with limited neurogenetics expertise. In this pilot seminar, faculty moderators with complementary expertise will help attendees develop their neurogenetics toolbox. After a brief presentation covering basic genomic testing terminology and high-yield resources for test interpretation, moderators will guide attendees in small groups to apply these skills to two clinical modules. Learning objectives will include strategies and best practices for genetic testing and variant interpretation.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Utilize genetic counseling for pre- and post-test counseling when ordering genetic tests, gene panel, chromosomal microarray, and exome and whole genome sequencing.
- Design a clinical phenotyping approach and genetic testing strategy for epilepsy and movement disorders.
- Distinguish different modes of inheritance (X-linked, autosomal recessive, autosomal-dominant, mitochondrial), demonstrate how to obtain a detailed family history, and construct a pedigree.
- List various criteria by which genetic variants are classified, per American College of Medical Genetics guidelines.
- Compare and contrast the methods and limitations of different genetic tests.
- Use OMIM, ClinVar, GeneReviews, Varsome, and other websites to interpret genetic variants.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Facilitating a learner-centered, interactive, case-based, neurogenetics education module
- Selection of gene testing modalities
 - Genetic variant interpretation
 - Pre- and post-test counseling
 - Utilizing online resources and experts in neurogenetics

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.

Tuesday, November 12 CONTINUED

ORGANIZERS

Kuntal Sen, MD, FACMG
Children's National Hospital
GWU School of Medicine and Health Sciences

Louis Dang, MD, PhD, FAES
Mott Children's Hospital
University of Michigan

SCIENTIFIC LIAISON

Kristina Julich, MD
Dell Medical School
UT Health Austin

SPEAKERS AND PANELISTS

Kuntal Sen, MD, FACMG
Children's National Hospital
GWU School of Medicine and Health Sciences

Margie Ream, MD, PhD
Nationwide Children's Hospital
The Ohio State University

Louis Dang, MD, PhD, FAES
Mott Children's Hospital
University of Michigan

Amitha Ananth, MD
The University of Alabama at Birmingham

Andrea Gropman, MD, FACMG, FAAP, FANA
Children's National Hospital
GWU School of Medicine and Health Sciences
Genetic Medical Research Center

Donald Gilbert, MD, MS, FAAN, FAAP
Cincinnati Children's Hospital
University of Cincinnati

2:00 PM - 3:15 PM

Seminar 2: The Clinician-Educator Path for Child Neurologists

TRACK/FORMAT

Leadership and Career Development/Didactic Format

DESCRIPTION

Despite being essential to the field of child neurology, the clinician-educator career path is often poorly understood and undervalued in contrast to other career paths, such as clinician-teacher or clinician-investigator. This seminar, tailored to academic child neurologists in the early to mid-career stages, will discuss the clinician-educator pathway, what it entails, and how one goes about pursuing a career in child neurology education. We will discuss both the challenges and opportunities that exist for child neurology educators, including the

specific issue of neurophobia in learners. Toolsets that can be used in education research, such as qualitative methodology and simulation, will also be discussed. With regards to simulation in particular, we will discuss the history of the use of this tool in medical education and will provide a specific evidence-based example of simulation-in-action in pediatric neurology ("The Move"). Finally, Dr. Vidaurre will provide a global perspective by reviewing the challenges of delivering child neurology education in diverse and lower-resourced settings.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Identify the opportunities and challenges of choosing a career as a clinician educator in child neurology.
- Discuss how to use simulation and online resources in child neurology education, as well as the issues in delivering child neurology education in lower-resource settings.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- The issues surrounding child neurology education in high- and low-resource settings.
- Consider the use of simulation in child neurology teaching.

ORGANIZER

Asif Doja, MD, MEd, RECPC, FAAN
Children's Hospital of Eastern Ontario

SCIENTIFIC LIAISON

Nancy Bass, MD
Children's Wisconsin
Medical College of Wisconsin

SPEAKERS AND PANELISTS

What is a Clinician Educator in Child Neurology?

Asif Doja MD, MEd, FRCPC, FAAN
Children's Hospital of Eastern Ontario

"The Move": An Example of Simulation-Based Education in Child Neurology

Emmanuel Flamand-Roze, MD
Sorbonne University
AP-HP, Salpêtrière hospital
INSERM, CNRS, Paris Brain Institute

Child Neurology Education in Lower-Resource Settings

Jorge Vidaurre, MD
Nationwide Children's Hospital - The Ohio State University

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.

2:00 PM - 3:15 PM

Seminar 3: Clinical Registry Implementation: The How-To and the Value

TRACK/FORMAT

Research Advances/Didactic Format

DESCRIPTION

Clinical research registries are foundational for advancing clinical practice. Advantages include promoting standardized care and screening practices, outcome tracking for quality improvement initiatives, elucidating the epidemiology of health conditions (particularly for rare conditions), determining disparities in care between different demographic groups, and facilitating clinical trial recruitment and enrollment. Therefore, clinical research registry implementation has both research and clinical benefits. However, implementation of these research registries can be daunting for individual practitioners. Even after implementation, research registries can feel time-consuming to populate. In this seminar, we will discuss how to implement clinical research registries as a part of routine clinical practice. We will discuss how to adapt the standardized notes and intake assessments from clinical research registries to best fit one's own clinical workflow. We will also discuss how to start your own clinical registry, including resources and funding mechanisms to facilitate this. Our goal is for pediatric neurologists and neurodevelopmentalists to feel compelled and capable of including clinical research registries as a part of their routine clinical practice.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Describe at least three strategies for implementing clinical research registries in their routine clinical practice.
- Describe at least three examples of how clinical research registry implementation can improve their clinical workflows.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Implementation of clinical research registries in my routine clinical practice.
- How clinical research registry implementation can improve my clinical workflow.

ORGANIZER

Bhooma Aravamuthan, MD, DPhil
Washington University School of Medicine

SCIENTIFIC LIAISON

Renée Shellhaas, MD, MS
Washington University School of Medicine

SPEAKERS AND PANELISTS

Advantages and Limitations of Clinical Registry Research

Zachary Grinspan, MD, MS
Weill Cornell Medicine

Standardizing Care Using a Combination of Local and National Registries

Bhooma Aravamuthan, MD, DPhil
Washington University School of Medicine

Developing a Multi-center Prospective Registry

Grace Gombolay, MD, MSC
Emory University
Children's Healthcare of Atlanta (CHOA)

3:30 PM - 4:45 PM

Seminar 4: Caring for a Person with Cerebral Palsy from Infancy to Adulthood

TRACK/FORMAT

Clinical Care/Discussion Format

DESCRIPTION

Cerebral palsy (CP) is the most common motor disability across the lifespan and affects up to four of every 1,000 people globally. The care of people with CP requires collaboration across disciplines and frequently involves neurology and orthopedic surgery specialties. The complex medical and surgical management options faced by families of people with CP, particularly noting that current management strategies are based largely on expert opinion, require the active involvement of caregivers in shared medical decision-making. CP has been increasingly discussed at the Child Neurology Society Annual Meeting in recent years with a focus on diagnostic variability and the need for increased neurologist involvement in management. However, these discussions have been limited to neurology practitioners and do not do justice to the rich realities of multidisciplinary CP care. We propose viewing CP care through the lens of a single hypothetical individual with CP as they age from six months to 25 years. Our panelists, a child neurologist, orthopedic surgeon, and caregiver of an adult with CP, will discuss this hypothetical person's care during multidisciplinary CP center visits as they age. Panelists will be explicit regarding what reflects evidence-based practice vs. consensus expert opinion vs. their own personal expertise. They will also discuss how they would approach shared medical decision-making. At each time point, the audience will be encouraged to ask questions and contribute their perspectives. Our goal is for attendees to understand how care of a person with CP evolves as they age, the value of integrating diverse medical and family perspectives in CP care, and strategies for shared decision-making in CP care.

Tuesday, November 12 CONTINUED

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Describe how the symptoms of CP evolve across the lifespan.
- Describe how neurologists, orthopedists, and caregivers may approach the care of a person with CP across their lifespan.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Multidisciplinary care of neurodevelopmental disabilities.
- Using shared decision-making strategies to optimize family-centered care.

ORGANIZER

Young-Min Kim, MD
Loma Linda University School of Medicine

SCIENTIFIC LIAISON

Bhooma Aravamuthan, MD, DPhil
Washington University School of Medicine

PANELISTS

Heather Riordan, MD
Kennedy Krieger Institute

Hank Chambers, MD
Rady Children's Hospital
University of California at San Diego

Jill Chambers
San Diego, CA

3:30 PM - 4:45 PM

Seminar 5: Harnessing Technology for Career Growth and Development

TRACK/FORMAT

Leadership and Career Development/Discussion Format

DESCRIPTION

This course will focus on the effective integration of technology to optimize professional productivity, improve communication, and build networks and connections. Introductory practical insights and strategies for harnessing digital tools and technology across broadly applicable backgrounds and professional goals will be presented. Following this brief introduction, participants will have the opportunity to participate in three of four small-group interactive sessions. These will include: 1) Harnessing Emerging Technology, which will focus on AI use in the professional setting; 2) Digital Productivity Tools; 3) Building Your Network; and 4) Capturing Digital

Scholarship for Promotion and Tenure. The session will conclude with an opportunity for gamification, a fun and practical way to apply newly learned skills throughout the remainder of the annual meeting. Participants need a laptop or iPad for full engagement.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Integrate emerging technologies and digital tools into their daily practice to enhance professional productivity and patient care in child neurology.
- Leverage digital platforms for building professional networks and capturing digital scholarship specific to their unique professional goals, career stages, and practice settings.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- The incorporation of digital tools and emerging technologies for my personal and professional productivity.
- The incorporation of digital platforms to build my professional network and capture my digital activities in traditional academic promotion pathways.

ORGANIZER

Kathryn Xixis, MD
University of Virginia

SCIENTIFIC LIAISON

Yasmin Khakoo, MD, FAAN, FAAP
MSK Kids at Memorial Sloan Kettering Cancer Center
Weill Cornell Medical College

SPEAKERS AND PANELISTS

Introduction

Jaclyn Martindale, DO
Wake Forest University School of Medicine

Harnessing Emerging Technology

Rohit Marawar, MD, FAES
Wayne State University

Digital Productivity Tools

Jessica Goldstein, MD
University of Minnesota Medical School

Building Your Network

Alison Christy, MD, PhD
Providence Health and Services

Karla Salazar, MD
Baylor College of Medicine

Capturing Digital Scholarship

Kathryn Xixis, MD
University of Virginia

Skill Building Through Gamification, Session Debrief, Q&A

Jeff Strelzik, MD
Children's National Medical Center
George Washington University School of Medicine
and Health Sciences

3:30 PM - 4:45 PM

Seminar 6: Bridging Academia and Industry to Advance Precision Medicine

TRACK/FORMAT

Research Advances/Didactic Format

DESCRIPTION

The field of child neurology is experiencing unprecedented growth in precision medicine, which is impacting our patient population. As next-generation sequencing identifies more children with neurogenetic conditions, more families with rare diseases are looking to develop new therapies customized to their child's condition. Also, newborn screening has given rise to more patients-in-waiting, prompting further need to optimize biomarkers and therapeutics. The past decade has witnessed approval of several transformative therapies in child neurology. The clinical trials leading up to these approvals were mostly built by bringing multiple stakeholders together and creating joint partnerships between academia and industry. Some clinician-scientists built companies in order to execute trials for disenfranchised communities. In other scenarios, patient advocates raised awareness and facilitated partnerships. Now, commercial approval of gene therapies for spinal muscular atrophy, muscular dystrophies, and leukodystrophies is changing our clinical landscape. Yet many disparities remain and are accentuated by socioeconomic, ethnic, and geographic factors. Recently, the NIH, the U.S. Food and Drug Administration (FDA), multiple pharmaceutical and life science companies, and nonprofit organizations created a public-private partnership to accelerate drug development. As part of this effort, the Bespoke Gene Therapy Consortium is establishing platforms and standards to speed the development and delivery of gene therapies for millions of people with rare diseases. This seminar will present a variety of different paths to partnerships between academia and industry and perspectives on moving from biological insights to company formation, clinical trialist interactions with industry as well as novel ways to work with NIH and regulatory authorities in the rare disease space. Both opportunities and challenges in resources, access, and scale will be discussed.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Identify the steps of therapy development that require academia-industry partnership and provide concrete examples thereof.

- Represent patient perspectives while addressing opportunities and challenges around self-interest in the realm of academia-industry partnership.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Strategic partnerships with industry.
- Engaging with patients in how to access new commercial therapies, clinical trials, anticipated new technology, and disparity in access.

ORGANIZER

Florian Eichler, MD
Massachusetts General Hospital
Harvard Medical School

SCIENTIFIC LIAISON

Raman Sankar, MD, PhD, FAAN, FAES
David Geffen School of Medicine at UCLA

SPEAKERS AND PANELISTS

Partnering to Address Unmet Need: From Patient Plight to Precision Medicine

Florian Eichler, MD
Massachusetts General Hospital
Harvard Medical School

Challenges in Gene Therapy for Neuromuscular Disorders: From Early Development to Commercial Implementation

Anne Connolly, MD, FAAN
Nationwide Children's Hospital
The Ohio State University

Beyond "One Disease at a Time": Therapeutic Platforms to Treat Monogenic Disease

P.J. Brooks
Rare Diseases Innovation, NCATS/NIH

5:00 PM - 5:30 PM

CNS Annual Business Meeting

5:00 PM - 6:30 PM

Wine and Cheese Reception

5:30 PM - 7:00 PM

Guided Abstract Tour #2

DESCRIPTION

It is important for all practitioners to stay up to date on the latest and most cutting-edge findings in the field. In this session, we will describe the most exciting research findings in our field from the past year that have yet to make it to the published literature. Attendees will get to hear about these findings first, before they hit journals. These findings will cover topics including new treatments

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.

Tuesday, November 12 CONTINUED

or diagnostics, pathophysiology, and assessments of our current practice patterns.

GAT2-1 Yi-Lee Ting, MS, CGC

Tracking Uncertainty in Germline Genetic Testing for Epilepsy and Neurodevelopmental Disorders: Sources, Attributes, and Resolution of Variants of Uncertain Significance in Over 70,000 Individuals

GAT2-2 Austin Layton, DO

Vigabatrin Versus ACTH As Second-Line Therapy After Very High-Dose Prednisolone Failure for the Treatment of Epileptic Spasms

GAT2-3 Adam Kirton, MD

A Clinical Brain Computer Interface Program for Children with Severe Physical Disabilities

GAT2-4 Aviv Schupper, MD

Metabolic Alterations in Association with Intraventricular Hemorrhage in Very Low Birth Weights Preterm Infants

GAT2-5 Kirsty McWalter, MS, CGC

Exome Sequencing vs Chromosomal Microarray for Copy Number Variant Detection

GAT2-6 Eman Hamed, MD, PhD

Arginine Vasopressin Alter Glymphatic Fluid Transport within Hippocampus

Wednesday, November 13

8:00 AM - 8:15 AM

CNS, PERF[®]-CNS, CNF, and ACNN Awards

Taeun Chang Outstanding Junior Member Awards

Taeun Chang Outstanding Junior Member Post-Graduate Awards

M. Richard Koenigsberger Memorial Scholarship

American Academy of Pediatrics Travel Grant

ACNN Nurse Practitioner Excellence Award in Child Neurology Nursing

ACNN Claire Chee Award for Excellence in Child Neurology Nursing

CNF Neurodevelopmental Disabilities (NDD) Summer Research Scholarship

CNF Dr. Kenneth F. Swaiman Medical Student Scholarships

PERF[®]-CNS Bridge Grant

PERF[®]-CNS Elterman Research Grant

PERF[®]-CNS Shields Research Grant

8:15 AM- 8:45 AM

2024 Philip R. Dodge Young Investigator Award Lecture

Language Matters: Working Toward Neuromodulation Therapies for the Language Comorbidities of Pediatric Epilepsy

Fiona M. Baumer, MD, MS
Stanford University School of Medicine
Palo Alto, CA

8:45 AM - 9:30 AM

Bernard Sachs Award Lecture

Cranial Motor Neuron Development in Health and Disease

Elizabeth C. Engle, MD

Boston Children's Hospital and Harvard Medical School
Boston, MA

Howard Hughes Medical Institute
Chevy Chase, MD

10:00 AM - 11:15 AM

Seminar 7: The Effect of Global Socio-Cultural Factors on Child Neurology Care

TRACK/FORMAT

Clinical Care/Didactic Format

DESCRIPTION

Socio-cultural anthropology looks at the diversities of human society in time and space, while also searching for commonalities among them. It analyzes local and global links and past and present history to understand current challenges. A systemic global review of felt and enacted stigma in epilepsy by the International League Against Epilepsy determined that the term epilepsy was contributory to both types. Negative attitudes were observed in all reviews, and there was global commonality of causes identified. Health care providers' view of patients and societal stigma in their own country/cultures may give a window into how it may tie to religion, management, and other aspects of epilepsy care. Similar stigma and societal concerns have

been identified with cerebral palsy (CP). An approach looking at physical, environmental, psychological, and social factors has revealed a more holistic view of growing up with CP. This may be compounded by fiscal challenges, especially if growing up in a low- or middle-income country. Cultural and linguistic sensitivities may have direct ramifications on management, morbidity, and mortality. Understanding important socio-cultural nuances is, therefore, an important part of comprehensive neurological care delivery for children. In this seminar, we aim to explore how specific historical, cultural, and societal beliefs have influenced perceptions, understanding of diagnosis, and adherence. Lecture 1: What's in a name: The literal cross-cultural meaning of epilepsy. Lecture 2: Beyond the motor disability: Societal beliefs that influence prognosis and lifestyle of children with cerebral palsy. Lecture 3: Understanding cultural differences in child neurology: Language, communication, and beyond. References: Kwon CS et al. *Epilepsia*. 2022 Mar;63(3):573-597. Hanes et al. *Child Care Health Dev*. 2019 Sep;45(5):613-622. Abdel Malek S, Rosenbaum P, Gorter JW. *Child Care Health Dev*. 2020 Mar;46(2):175-186.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Demonstrate their understanding of how historical words and cultural beliefs affect present-day neurological management and provide specific examples in both children with cerebral palsy and epilepsy.
- Improve communication considering socio-cultural differences.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Becoming more aware of the impact of socio-cultural differences in the delivery of neurological care.
- Improving communication between physician and patient/family members understanding the specific cultural environment and language barriers.

ORGANIZER

Dave F. Clarke, MBBS, ABPN, ABCN, FAES
Dell Medical School
University of Texas at Austin

SCIENTIFIC LIAISON

Alcy R. Torres, MD
Boston Medical Center

MODERATOR

Mubeen Rafay, MB, BS, FCPS, MSc
University of Manitoba

SPEAKERS AND PANELISTS

What's in a Name: The Literal Cross-Cultural Meaning of Epilepsy

Dave F. Clarke, MBBS, ABPN, ABCN, FAES
Dell Medical School
University of Texas at Austin

Beyond the Motor Disability: Societal Beliefs That Deeply Influence Prognosis and Lifestyle of Children with Cerebral Palsy

Charles K. Hammond, MB, ChB, FWACM, FGCP
Komfo Anokye Teaching Hospital

Understanding Cultural Differences in Child Neurology: Language, Communication, and Beyond

Maria Teresa Acosta P., MD
Undiagnosed Disease Program
Gene Therapy Program GM1
National Human Genome Research Institute National Institutes of Health

10:00 AM - 11:15 AM

Seminar 8: Addressing Gender Disparities in Academic Child Neurology

TRACK/FORMAT

Leadership and Career Development/Discussion Format

DESCRIPTION

Women in academia have historically lagged men by traditional measures of success across specialties. However, the extent and implications of gender gaps remain to be defined in academic child neurology. In Part 1, we will present two studies on gender equity in academic child neurology, conducted by the CNS Research Committee. We compiled data for all board-certified child neurologists between 2000-2020, including gender, geographical location, academic rank, number of publications, and NIH funding. The number of board-certified child neurology diplomates reached gender parity in 2005, with women exceeding men since 2011. Currently, women in academic child neurology outnumber men, and more women than men are assistant professors. However, only 7% of women are full professors, compared to 17% of men. Men had a higher average number of publications than women; yet the H-index of men and women for their publications were similar. Further, we examined how metrics of professional success evolved in academic child neurology, by gender, between 2000-2020. In a follow-up survey- and interview-based study, we are collecting detailed information about factors that positively or negatively impacted careers of academic child neurologists. Notably, this second study enables inclusion of non-binary or transgender identities, as well as data on racial and ethnic background. In Part 2, study members will facilitate small group discussions about the presented findings and brainstorm next steps

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Wednesday, November 13 CONTINUED

for individuals at different career stages, institutions, and national organizations such as CNS. In Part 3, groups will summarize their discussions, with commentary from a panel of experts. The goals of this session are:

1) define the current status of gender equity in academic child neurology, based on data compiled by the CNS Research Committee and 2) identify strategies to help faculty succeed as academic child neurologists.

LEARNING OBJECTIVES

This educational session will help attendees to:

- Describe gender disparities in academic child neurology, and how these disparities have evolved over the last 20 years.
- Identify ways to address gender disparities in academic success through Child Neurology divisions/departments, and/or through national organizations like the Child Neurology Society.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Identifying professional gender disparities.
- Implementing strategies to address gender-based disparities and advance my career or that of my colleagues.
- Promoting professional success in academic careers.

ORGANIZER

Juliet Knowles, MD, PhD
Stanford University School of Medicine

SCIENTIFIC LIAISON

Nomazulu Dlamini, MD, MBBS, MRCPCH, MSc, PhD
Sick Kids University of Toronto

SPEAKERS AND PANELISTS

Gender-based Disparities in Academic Child Neurology, 2000-2020

Juliet Knowles, MD, PhD
Stanford University School of Medicine

Identifying Critical Factors to Academic Success for Child Neurologists

Angela Hewitt, MD, PhD
University of Rochester Medical Center

Durriel Hardy, MD
Dell Children's Medical Center
University of Texas at Austin, Dell Medical School

Monica Lemmon, MD
Duke University School of Medicine

Renée Shellhaas, MD, MS
Washington University School of Medicine

Josh Bonkowsky, MD, PhD
Primary Children's Hospital
University of Utah

10:00 AM - 11:15 AM

Seminar 9: Cerebellar Contributions to Neurodevelopment

TRACK/FORMAT

Research Advances/Didactic Format

DESCRIPTION

In this seminar, we will undertake an exploration of the profound role that cerebellum and cerebellar injury plays in neurodevelopment. From the impact of injury suffered in prematurity to more focal lesions later in life, our speakers will detail how advanced imaging, clinical findings, and model organism-based research have uncovered the intimate relationship between the cerebellum and cortical network structure and function. Attendees will leave with a deeper understanding of one of the most exciting areas of cognitive neuroscience and a new perspective to help frame prognostic discussions.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Understand the demographics of prematurity, highlighting the racial and socioeconomic vulnerability of this population.
- Critically evaluate the role of cerebellar pathology in predisposing patients to a broad spectrum of neurodevelopmental disability.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Discussions about prognosis in children born prematurely.
- Critically evaluating neurodevelopmental disability in patients with cryptic etiologic work-ups.

ORGANIZER

Jason Gill, MD, PhD
Texas Children's Hospital, Baylor College of Medicine

SCIENTIFIC LIAISONS

Timothy R. Gershon, MD, PhD
UNC School of Medicine

Ariel Lyons-Warren, MD, PhD
Baylor College of Medicine
Texas Children's Hospital

SPEAKERS AND PANELISTS

Preterm Birth and Developmental Cerebellar Cognitive Affective Syndrome

Catherine Limperopoulos, PhD
Children's National Hospital, George Washington School of Medicine

Cerebellar Lesion Location Influences Outcomes

Aaron Boes, MD, PhD
University of Iowa, Carver College of Medicine

Cerebellum and Behavior: Mouse Models of Cerebellar Dysfunction”

Jason Gill, MD, PhD
Texas Children’s Hospital, Baylor College of Medicine

12:30 PM - 1:45 PM

Seminar 10: Restoring Function: Management of Functional Neurologic Disorders

TRACK/FORMAT

Clinical Care/Didactic Format

DESCRIPTION

Most child neurologists will encounter Functional Neurologic Disorder. The incidence of this disorder is 18:100,00, and these patients make up to ten percent of new patients in child neurology clinics. We know that the cost of pediatric functional neurological disorder is 75 million dollars in unnecessary hospitalizations and another 13 million in emergency room visits. We also know that many patients with this disorder find their interactions with medical providers dismissive and distressing. It is harder to quantify the impact of the disorder on the patients themselves as there is strikingly little literature on the cost of functional neurologic disorder to the patient in terms of measures such as school absences, which likely speaks to medical bias these patients face. Despite it being relatively common, many providers find it challenging to diagnose and provide optimal care for affected individuals. There are a variety of factors that contribute to this, including discomfort with communicating the diagnosis in a way that is both understandable and satisfying for patients and families, limited understanding of the treatment for FND, and lack of resources for patients. These all contribute to the scarcity of providers that treat FND and continue to generate health disparities in this population. We aim with this seminar to start closing the gap in access to high quality care for patients with FND. We will begin by reviewing current understanding of the mechanisms underlying functional neurologic symptoms. We will then discuss how to translate this knowledge into an effective, palatable, and therapeutic discussion of the symptoms with patients and common roadblocks to patient acceptance and understanding. We will then discuss and review options for treatment of these symptoms with patients, including finding resources for treatment local to providers.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Demonstrate the ability to explain the diagnosis and its mechanism in a therapeutic manner.
- Recommend evidence-based treatment of FND.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Delivering the diagnosis of functional neurologic disorder in a patient-friendly, therapeutic manner.
- Recommending evidence-based treatment for FND

ORGANIZER

Shannon Dean, MD, PhD
Kennedy Krieger Institute
Johns Hopkins University

SCIENTIFIC LIAISON

Daniel Freedman, DO
Dell Medical School
UT Health Austin

SPEAKERS AND PANELISTS

Current Understanding of FND Mechanisms

Shannon Dean, MD, PhD
Kennedy Krieger Institute
Johns Hopkins University

Delivering the Diagnosis

Julio F. Quezada, MD
Kennedy Krieger Institute

Evidence-Based Treatment of FND

Gilsela Sandoval MD, PhD
Stanford University

12:30 PM - 1:45 PM

Seminar 11: View from The Top: Hiring, Salary, and Promotion in Academia

TRACK/FORMAT

Leadership and Career Development/Discussion Format

DESCRIPTION

Navigating the academic career path can be difficult, particularly without knowing how academic divisions and departments operate within and outside your own institution. Furthermore, it may be intimidating to ask one’s own department chair or division chief about hiring practices, salary negotiations, and promotion criteria. In this seminar, we have assembled seasoned division chiefs and department chairs, all child neurologists, from across the country to answer these questions for you. We will solicit questions from the audience anonymously (written on index cards) and ask pre-prepared questions, including:

- *Where is pediatric neurology housed at your institution (Pediatrics/Neurology/stand-alone)?*
- *What are the funding streams that supply this division?*
- *How do you approach hiring?*
- *How do you use conferences like CNS to facilitate that?*

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- *How should someone approach you if they're interested in working for you at a conference such as this? How do you determine salaries for your employees?*
- *How do you ensure salaries are equitable?*
- *Describe salary negotiation strategies from prospective employees that you think have been effective.*
- *What are the different professional tracks in your institutions?*
- *How does the pathway to promotion differ between tracks?*
- *How do you ensure transparent and fair communication re: promotions criteria?*
- *How have you developed your hiring practices to ensure a diverse Division/Department?*
- *What's the best way to ask for a raise?*
- *What considerations go into you providing raises?*
- *(For whom it applies) How has being a woman and/or person of color affected your path in academic leadership?*
- *(For all) What mentorship do you provide women, people of color, and those underrepresented in neurology as they navigate academic leadership?*

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Describe the diversity in pediatric neurology leadership and divisional structures across multiple institutions.
- Describe salary and hiring negotiation strategies that academic leaders have found to be successful.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Approaching my academic leaders for a raise or promotion.
- Optimally operating within my academic institution's funding and organizational structure.

ORGANIZER

Craig Press, MD, PhD
Children's Hospital of Philadelphia

SCIENTIFIC LIAISON

Bhooma Aravamuthan, MD, DPhil
Washington University School of Medicine

SPEAKERS AND PANELISTS

Christina Gurnett, MD, PhD
St. Louis Children's Hospital
Washington University School of Medicine

Amy Brooks-Kayal, MD, FAAN, FANA, FAES
University of California, Davis, School of Medicine

Yoon-Jae Cho, MD
Doernbecher Children's Hospital
Oregon Health & Science University

Dalila Lewis, MD, FAAP
Medical University of School Carolina

12:30 PM - 1:45 PM

Seminar 12: Untangling the Impact of Social Stress on Early-life Brain Injury

TRACK/FORMAT

Research Advances/Didactic Format

DESCRIPTION

Social determinants of health are amongst the strongest factors associated with developmental outcomes after prenatal and perinatal brain injuries, even when controlling for the severity of the initial injury. Historically, animal models have provided vital insight into mechanisms perturbed by developmental brain injuries, indicating directions for novel therapeutics or interventions. Animal models are also used to learn how social environments affect brain maturation through enriched environments and early adverse conditions. While we recognize animal models cannot fully recapitulate human social circumstances, in this symposium, we will urge that child neurologists be at the forefront of performing translational and mechanistic studies that combine models of developmental brain injuries and early life social environments to uncover novel insights into pathways important for recovery. Participants will learn about the clinical impact of social determinants of health on outcomes of acquired brain injury, current animal models of neonatal brain injury and social stress, and novel high-resolution single-cell molecular tools that promise to unravel the complex effects of acquired brain injuries and social determinants of health.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Recognize that social determinants of health are multi-dimensional and likely modify brain health in children through several mechanisms.
- Appreciate the strengths and limitations of combining animal models of perinatal brain injury with models of early life adversity or enrichment.

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Considering how social-environmental factors impact outcomes of my patients
- Interpreting large dataset studies that can be used to study the interaction between environment and recovery from developmental brain injury.

ORGANIZER

Ana G. Cristancho, MD, PhD
Children's Hospital of Philadelphia
Perelman School of Medicine at the
University of Pennsylvania

SCIENTIFIC LIAISON

Dawn Gano, MD, MAS
University of California, San Francisco

SPEAKERS AND PANELISTS

Nomazulu Dlamini, MD, MSc, PhD
Sick Kids
University of Toronto

Thiviya Selvanathan, MD, PhD, FRCPC
BC Children's Hospital
University of British Columbia

Danielle Guez Barber, MD, PhD
Children's Hospital of Philadelphia
Perelman School of Medicine at the
University of Pennsylvania

Ana G. Cristancho, MD, PhD
Children's Hospital of Philadelphia
Perelman School of Medicine at the
University of Pennsylvania

2:15 PM – 4:00 PM

Platform Sessions 1, 2 and 3

DESCRIPTION

It is important for all practitioners to stay up to date on the latest and most cutting-edge findings in the field. In these sessions, we will describe the most exciting research findings in our field from the past year that have yet to make it to the published literature. Attendees will get to hear about these findings first, before they hit journals. These findings will cover topics including new treatments or diagnostics, pathophysiology, and assessments of our current practice patterns.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Give examples of new treatments or diagnostics that may eventually be considered for pediatric neurologic and neurodevelopmental conditions.
- Give examples of the pathophysiology of a subset of pediatric neurologic and neurodevelopmental conditions.

- Give examples of how child neurologists and neurodevelopmentalists currently practice and some suggestions for improvement of current practice.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Integrating new treatments or diagnostics for pediatric neurologic and neurodevelopmental conditions.
- Identify changes I could make in my practice related to optimizing my understanding of the pathophysiology of pediatric neurologic and neurodevelopmental conditions.

PLATFORM SESSION 1

PL1-1 Joseph Sullivan, MD

Safety and Clinical Effects of STK-001, an Antisense Oligonucleotide (ASO), in Children and Adolescents with Dravet Syndrome: Phase 1/2a End-of-Study and Open-label Extension (OLE) Data

PL1-2 Vicente Quiroz, MD

Delineating the Molecular and Clinical Spectrum of Epilepsy-Dyskinesia Syndromes (The Epilepsy-Dyskinesia Spectrum Study)

PL1-3 Kathryn Yang, MD

Defining the Spectrum of Extrapyrarnidal Movement Disorders in Childhood-Onset Hereditary Spastic Paraplegia: A Cross-Sectional Analysis of Over 500 Cases

PL1-4 Miles Fisher, DO

Predictors of Drug-Resistant Epilepsy after Perinatal Stroke

PL1-5 Sonya Wang, MD

Identifying Predictors and Mechanisms of Response to Comprehensive Behavioral Intervention for Tics: Methods of the TReC Study

PL1-6 Agnieszka Kielian, MD

Low Incidence of Seizures in Neonates following Cardiac Surgery with Cardiopulmonary Bypass

PL1-7 Seva Khambadkone, MD, PhD

Delta Power During Sleep Is Associated with MRI-visible Perivascular Space Volume in Adolescents and Young Adults

PLATFORM SESSION 2

PL2-1 Thiviya Selvanathan, MD, PhD, FRCPC

Early vs. Term Equivalent MRI in Very Preterm Infants: Which is More Predictive of Neurodevelopmental Outcomes at 36 Months?

PL2-2 Harvey Sarnat, MD

Keratan Sulfate: Chemical Template for Neuroblast Migratory Pathways and Axonal Fascicles in Human Fetal Forebrain

PL2-3 Whitney Fitts, MD

Racial, Ethnic, and Socioeconomic Associations with Developmental Outcomes in Neonatal HIE: A 10-year Retrospective Cohort Study.

Wednesday, November 13 CONTINUED

PL2-4 Saba Jafarpour, MD

De Novo Variants in Immune Regulatory Genes in Down Syndrome Regression Disorder

PL2-5 Davut Pehlivan, MD

Insight into MECP2 Duplication Syndrome: Unraveling Disease Severity and Expression Variability using Multiomics and Deep Phenotyping

PL2-6 Melissa Greco, MD

The Unexpected and Novel Mitochondrial Phenotype of the Ex Vivo Patient-derived Cellular Model for SYNGAP1 Encephalopathy

PL2-7 Ashley Bach, MD

Association of Cerebrospinal Fluid-restricted Oligoclonal Bands with Relapsing Disease in Pediatric Myelin Oligodendrocyte Glycoprotein Antibody Disease

PLATFORM SESSION 3

PL3-1 Kimberly Goodspeed, MD

Updated Clinical Activity and Safety from a Phase 1/2 Open-label Trial of GTX-102, an Investigational Antisense Oligonucleotide for the Treatment of Patients with Angelman Syndrome

PL3-2 Elizabeth Troy, MD

The ABCs of Child Neurology: Creating Lifelong Learning through Article Based Curriculum

PL3-3 Johanie Victoria Piché

Hemiparetic Cerebral Palsy MRI Injury Patterns and Symptoms by Gestational Age at Birth

PL3-4 Grace Gombolay, MD, MSC

Worldwide Epidemiology of Pediatric Multiple Sclerosis: Data from the Multiple Sclerosis International Federation Atlas of MS, Third Edition

PL3-5 Alexander Fay, MD, PhD

CANaspire Trial of Systemic AAV9-mediated Gene Therapy for Canavan Disease: Biomarker, Imaging and Clinical Findings from the Low-dose Cohort

PL3-6 Alexis Krolick, DNP

Eladocogene Exuparvovec Gene Therapy Improves Motor Development in Patients with Aromatic L-amino acid Decarboxylase Deficiency

PL3-7 Stephen Chrzanowski, MD, PhD

Two-step Newborn Screening Algorithm of Single Dried Blood Spot Test Identifies Disproportionate Number of Female Duchenne Muscular Dystrophy Carriers

4:30 PM - 6:00 PM

Junior Member/Early Career Forum and Panel Discussions

7:00 PM - 9:00 PM

Closing Gala

Thursday, November 14

8:00 AM - 8:45 AM

Hower Award Lecture

Supported by



Synergy in Child Neurology: Science, Collaboration, and Leadership

Renée Shellhaas, MD, MS
Washington University in St Louis
St Louis, MO

9:00 AM - 12:00 PM

Symposium III: Year in Review

DESCRIPTION

With new exciting advancements in child neurology in the areas of clinical care, research, new medications, gene therapies, and new technologies, this session provides an overview within different pediatric neurology subspecialties. Recent advancements in the past year will be covered in this symposium by experts in the field, with a focus on studies that are relevant to the general child neurologist. The topics will include epilepsy, neonatal neurology, stroke/neurocritical care, neuroimmunology, neuromuscular, neuro-oncology, diversity/equity/inclusion, movement disorders,

headaches, and neurogenetics. Studies will include multi-center consortia and clinical trials. Abstracts from other professional societies relevant to our membership will also be presented by leaders across organizations. This symposium will provide an update on the most relevant and high-impact studies within child neurology.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Identify high-impact studies that have been published in child neurology in the past year.
- Discuss novel therapies and treatments available for pediatric neurological disorders.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Evidence-based practices for management of pediatric neurological diseases.
- Discussing important studies in pediatric neurology.

ORGANIZERS

Dave F. Clarke, MBBS, ABPN, ABCN, FAES
Dell Medical School
University of Texas at Austin

Grace Gombolay, MD, MSC
Emory University
Children's Healthcare of Atlanta (CHOA)

MODERATORS

Soe S. Mar, MD, MBBS, MRCP
Washington University School of Medicine

Shawn C. Aylward, MD
Nationwide Children's

Epilepsy

Ajay Gupta, MD
Cleveland Clinic

Stroke/Neurocritical Care

Lori C. Jordan, MD, PhD
Monroe Carell Jr. Children's Hospital at Vanderbilt

Neuroimmunology

Jennifer Graves, MD, PhD, MAS
Randy Children's Hospital UC
San Diego Health

Neonatology

Monica Arroyo, MD
Joe DiMaggio Children's Hospital

Neuromuscular

Hoda Abdel-Hamid, MD
UPMC Children's Hospital of Pittsburgh

Neurogenetics

Erika J. Axen, MD
University of Virginia

Movement Disorders

Marisela Dy-Hollins, MD
Massachusetts General Hospital
Brigham and Women's Hospital

Headache

Jasmine C. Forte, MD
Children's Healthcare of Atlanta

Diversity, Equity and Inclusion/Social Determinants of Health

Nithya Ravindran MD
Charles R. Drew University of Medicine and Science

Neurodevelopment

Audrey Brumback, MD, PhD
Dell Medical School, UT Health Austin

Sleep Medicine

Wei K. Liu, MD
Cincinnati Children's

Global Pediatric Neurology

Alcy R. Torres, MD
Boston Medical Center

Abstracts from the American Neurological Association (ANA) Annual Meeting

Howard P. Goodkin, MD, PhD
University of Virginia

Abstracts from the American Epilepsy Society (AES) Annual Meeting

Rani K. Singh, MD
Atrium Health
Wake Forest University School of Medicine

Abstracts from the American Academy of Cerebral Palsy and Developmental Medicine (AAPDM) Annual Meeting

Laurie J. Glader, MD
Nationwide Children's Hospital

12:15 PM - 4:15 PM

Biomedical Writing Workshop

DESCRIPTION

This four-hour, small-group interactive workshop is designed to help novice medical writers overcome common barriers to successful publication. We review common correctable reasons for manuscript rejection and teach effective techniques for overcoming writer's block. Using text examples, we illustrate techniques and pointers for improving manuscript quality. We teach effective methods to respond to revision requests and interact with journal editors. The session ends with a casual meet-the-editors question-and-answer period featuring several current or former medical editors. Major topics include:

1. Why Manuscripts Are Rejected: Overcoming Barriers to Publication
2. Keeping Things Moving: Combating Writer's Block

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.

Thursday, November 14 CONTINUED

3. Creating Better Manuscripts: Less Is Often More
4. Responding to Reviews and Revising Your Manuscript
5. Rules of the Road: Permissions, Consents, and Other Potholes

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Recognize common reasons for manuscript rejection.
- Know techniques to overcome writer's block.
- Develop strategies to improve manuscript quality.
- More effectively revise manuscripts and respond to reviewers and editors.
- Understand the basic requirements for republication, use of patient materials, and privacy concerns.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Improving the quality of the manuscripts submitted for publication.
- More effectively revising manuscripts following journal peer reviews.

ORGANIZER

E. Steve Roach, MD
The University of Texas Dell Medical School

12:15 PM - 4:15 PM

CNS Clinical Research Workshop: Data Quality and Analysis

DESCRIPTION

The Child Neurology Society Clinical Research Workshop began in 2021 in response to a desire for child neurologists to build confidence in conducting clinical research. The workshop is designed to follow a five-year arc, beginning with identifying a gap in the field, study design, and selecting outcome measures. Now in its fourth year, the 2024 clinical research workshop will focus on analyzing data. Topics will include requirements for the new NIH Data Management and Sharing Plan, recommendations on how to store data locally and in national repositories, avoiding common statistical pitfalls in analyzing data, and how to clearly and effectively present

data in manuscripts, posters, and presentations. Topic presentations will be followed by a breakout session where participants can bring questions about their own data to share with the experts. The goal is for each participant to leave the workshop with practical tips and resources for storing, analyzing, and presenting data that they can apply to their own research. Each clinical research workshop is designed to stand alone, and new participants who have not attended previous workshops are encouraged to join.

LEARNING OBJECTIVES

As a result of this educational session, participants will be able to:

- Develop a better understanding of how to store and structure their research data to easily meet the new NIH data sharing and management plan requirements.
- Understand common statistical errors made when analyzing data.
- Create clear, effective figures to present their data in manuscripts, posters, and presentations.

IMPACT STATEMENT

This educational session helped me to identify changes I could make in my practice related to:

- Initiating new clinical research projects.
- Meaningful engagement in existing clinical research projects.

ORGANIZER

Rose Gelineau-Morel, MD
Children's Mercy, Kansas City

Welcome/Introduction

Rose Gelineau-Morel, MD
Children's Mercy, Kansas City

Tips for the New NIH Data Management and Sharing Plan

Kristi Hardy, PhD
NINDS/NIH

Efficient Data Storage and National Data Repositories

Alexander Li Cohen, MD, PhD
Boston Children's Hospital

Statistics Done Wrong

Donald Gilbert, MD, MS
Cincinnati Children's Hospital

How to Present Your Data Effectively

Kurt Albertine, PhD
University of Utah Health, School of Medicine

SESSIONS highlighted in maroon are designated for CME credit. Agenda and amount of CME credits available are subject to change.



PRODUCT THEATER PRESENTATION:

Advancements in Rett Syndrome (RTT) Care

Tuesday, November 12, 2024

12:00 PM–1:00 PM

Presidio Ballroom

Join Acadia for lunch and a discussion with a panel of RTT experts led by Dr Shannon Standridge, alongside a caregiver for an individual with RTT.

► **Visit the Acadia booth #507**

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CNS Junior Members/Early Career Events

Dear Junior and Early Career Members,

Welcome to the 53rd Child Neurology Society Annual Meeting! We are thrilled to have you join us for what promises to be an exciting and enriching experience. As emerging professionals in the field of child neurology, your presence here not only underscores your commitment to advancing our understanding and treatment of neurological disorders in children but also enhances the collective knowledge and enthusiasm of our community.

We have thoughtfully designed this year's meeting with you in mind. We understand the unique challenges and opportunities that come with being early in your career, and we are dedicated to supporting your growth through a range of tailored programming. Our specially curated sessions aim to provide you with valuable insights, practical skills, and networking opportunities that are crucial for your professional development. So, whether you are a medical student trying to decide how to get started or in your early years of faculty trying to navigate effort, please join us!

We'd like to highlight a few aspects of the program:

- New this year, we'll have a meet-up right at the start of the meeting at the Welcome Reception. Please look out for the signs so you can connect with other junior members or our committee!
- The "Lobby Talks" are back this year! Starting even on day 1 of the meeting, these are short 20-minute talks on topics ranging from basics of meeting networking to finances to many of the different career paths you can take within our wonderful and diverse specialty.
- We are excited to have the Junior/Early Career Forum, with CNS President Dr. Peter Kang speaking to you directly about issues that are important for junior membership. We will also look for ideas for you for next year! Right after the forum, we'll also have panel discussions for picking residency programs, fellowships, and your first job.

We also encourage you to take full advantage of our poster sessions and networking events. These gatherings provide an excellent platform for you to present your work, exchange ideas with peers, and engage in meaningful discussions with leaders in the field.

Sincerely,

The Co-chairs of the Junior Early Career Committee:

Ana G. Cristancho, MD, PhD
Assistant Professor
Division of Child Neurology
Children's Hospital of Philadelphia

Paul E. Youssef, DO
Assistant Professor of Neurology
Division of Child & Adolescent Neurology
Mayo Clinic

Monday, November 11, 2024

Lobby Talks: For CNS Junior Members | Audience: MS & PGY1-4

3:00 PM - 3:20 PM	Networking during meetings	Ariel Lyons-Warren, MD, PhD Baylor College of Medicine
3:20 PM - 3:40 PM	Transitions in residency between adult and child neurology	Meghan Konda, MD Medical College of Wisconsin
3:40 PM - 4:00 PM	Approaches to research in residency	Danielle Barber, MD, PhD Children's Hospital of Philadelphia
4:00 PM - 4:20 PM	How to be a good mentee	Jason Gill, MD, PhD Baylor College of Medicine
6:00 PM - 7:30 PM	Welcome Reception	

Tuesday, November 12, 2024

Lobby Talks: Understanding Academic Tracks | Audience: General

7:00 AM - 7:20 AM	Career pathways: Research scientist, clinician educator, and advocacy	Danielle Barber, MD, PhD Children's Hospital Colorado
7:20 AM - 7:40 AM	Understanding effort, salary, and fractions (include P&L statement)	Aravind Veerapandiyan, MD Arkansas Children's Hospital University of Arkansas for Medical Sciences
7:40 AM - 8:00 AM	What to look for in an academic job offer	Rachel Gottlieb-Smith, MD, MHPE University of Michigan

Wednesday, November 13, 2024

Lobby Talks: The Vast Opportunities in Child Neurology | Audience: General

7:00 AM - 7:20 AM	Career pathways: Private practice, community practice, and micropractice	Kapil Arya, MD, FAAP, FAAN, FANA, FACNS, FCNS University of Arkansas for Medical Sciences Arkansas Children's Hospital
7:20 AM - 7:40 AM	Industry job landscape	Sunita Misra, MD, PhD SK Life Science
7:40 AM - 8:00 AM	Transitioning in roles: academic, nonacademic, industry, administrative	Matt Harmelink, MD Solid Biosciences
11:30 AM - 11:50 AM	What to look for in a job offer, promotional package, and renegotiation: Private practice, academia, and community	Sucheta Joshi, MD, MS, FAAP, FAES Children's Hospital Los Angeles
11:50 AM - 12:10 PM	Financial literacy: Resources and planning	Alexander Cohen, MD, PhD, FAAN Boston Children's Hospital
12:10 PM - 12:30 PM	The value of alternative degrees: MBA, MHA, MedEd, and MSc	TBA

Junior Member/Early Career Forum and Panel Discussions | Audience: General

4:30 PM - 5:00 PM	Q&A	CNS President Peter B. Kang, MD University of Minnesota
5:00 PM - 5:20 PM	Forum Presenters: Paul Youssef, DO Mayo Clinic	Alexander Li Cohen, MD, PhD Boston Children's Hospital Ariel Lyons-Warren, MD, PhD Baylor College of Medicine Texas Children's Hospital
5:20 PM - 6:00 PM	Panel 1: Choosing a residency program Panelists: Ashley Mei Bach, MD MPH Children's Hospital of Philadelphia	Nora Jandhyala, MD NYU Langone Health Laura Vernon, MD Ann & Robert H. Lurie Children's Hospital of Chicago
5:20 PM - 6:00 PM	Panel 2: Choosing a fellowship program Panelists: Meghan McAnally, MD, MPH NINDS	Kaylene Fiala, MD, MA Children's Wisconsin Kuntal Sen, MD, FACMG Children's National Hospital, Washington DC
5:20 PM - 6:00 PM	Panel 3: Choosing your first job: Clinical, private practice, and research Panelists: Kapil Arya, MD, FAAP, FAAN, FANA, FACNS, FCNS University of Arkansas for Medical Sciences Arkansas Children's Hospital	Poonam Bhatia, MBBS, MD, FAAN Phoenix Children's Hospital Laura Gilbert, DO, MBA Ann & Robert H Lurie Children's Hospital of Chicago, Northwestern University Feinberg, School of Medicine

Thursday, November 14, 2024

Lobby Talks: A hodgepodge of great topics | Audience: General

7:00 AM - 7:20 AM	Build and tailor your CV to a desired job	Paul Youssef, DO Mayo Clinic
7:20 AM - 7:40 AM	Developing novel clinical programs	Shannon Dean, MD, PhD Kennedy Krieger Institute Johns Hopkins University
7:40 AM - 8:00 AM	Partnering with the community: Foundations, centers, and resources	Andres Jimenez Gomez, MD Joe DiMaggio Children's Hospital

ASSOCIATION OF CHILD NEUROLOGY NURSES

Annual Conference Schedule

November 12-14, 2024

Tuesday, November 12, 2024		
8:00 AM - 8:15 AM	Welcome and Opening Remarks	
8:15 AM - 10:15 AM	Keynote Lecture: Tying 3D Brain Anatomy to Assessment in the Pediatric Patient	Linda Littlejohns, MSN, RN, SCRNP, CNRN, FAAN
10:15 AM - 10:30 AM	Q&A Discussion with Linda Littlejohns	
10:30 AM - 10:45 AM	Break	
10:45 AM - 11:45 AM	Neuroimaging of the Pediatric Brain	Alexander Cohen, MD, PhD
11:45 AM - 12:00 PM	Q&A Discussion with Alexander Cohen	
12:00 PM - 1:00 PM	Lunch	
1:00 PM - 1:45 PM	Case Presentation: A Pediatric Patient with Vertebral Arterial Dissection and Mechanical Thrombectomy	Hillary Horte, MS, FNP-C, SCRNP, CPN
1:45 PM - 2:45 PM	Neurodevelopmental Screening Tools	Jasper Estabillo, PhD
2:45 PM - 3:00 PM	Break	
3:00 PM - 4:00 PM	Return to Learn/Return to Play Concussion Management Guidelines	UCLA TBI Program
4:00 PM - 4:15 PM	Q&A and Discussion with UCLA BrainSPORT Program	

Wednesday, November 13, 2024		
8:00 AM - 9:00 AM	Awards and Business Meeting	
9:00 AM - 9:45 AM	I Haven't Got Tools for the Pain: Building a Better Toolbox for Youth with Chronic Migraine	Scott B. Turner, DNP
9:45 AM - 10:30 AM	Guidance in diagnosing X-Linked Adrenoleukodystrophy through the Newborn Screen process	Oikeh Medina, APRN, FNP-C
10:30 AM - 10:45 AM	Break	
10:45 AM - 11:30 AM	Case series: Genetic Considerations in Two Young Boys with Hypotonia and Similar Gross Motor Delays	Samantha Weaver, DNP, CRNP, CPNP-AC, CNRN
11:30 AM - 12:00 PM	Clinical Pearls for APPs	Moderator TBD

Wednesday, November 13, 2024 CONTINUED

12:00 PM - 1:00 PM	LUNCH (SIG breakout sessions: headache, epilepsy, movements, tics, neuromuscular, developmental delay, RNs)	
1:00 PM - 1:45 PM	KCNT1-Related Epilepsy: A Case Review	Kathleen Griffin, PNP
1:45 PM - 2:30 PM	The incidence of neuropsychiatric side effects with common anti-seizure medications in children and adolescents: A retrospective chart review	Emily Wignall, MSN, CRNP
2:30 PM - 3:15 PM	Poster Session	
	Case report: a novel, deep intronic insertion of approximately 306kb of chromosome 10 in the DMD gene as a cause of Duchenne muscular dystrophy	Keri Ramsey, MS, CGC, RN
	Increasing Nurse Confidence and Efficiency on a Pediatric Epilepsy Monitoring Unit (PEMU)	Victoria Miller MSN, RN, CPN, NPD-BC
	Optimizing Nursing Care for Infantile Spasms: Creation of Protocols for First-Line Treatments and Comprehensive Support	Emilia Spaulding, BSN, RN, PHN, CNRN

Thursday, November 14, 2024

8:00 AM - 8:45 AM	Utilizing Nurses in the Neurology Outpatient Setting	Karla Quezada, RN, BSN and Meggan Healy, BSN
8:45 AM - 9:30 AM	Can't We All A-GRI?: Building A Multidisciplinary Program to Treat GRI Disorders	Ryleigh VandenBroeke, RN, BSN, CPN, AMB-BC
9:30 AM - 9:45 AM	Break	
9:45 AM - 10:30 AM	Onboarding New Novel Precision Therapeutics for Neuromuscular/ Neurodegenerative Patients; The Role of the RN Clinical Coordinator Taylor Schwab, BSN, RN, CPN, AMB-BC	Taylor Schwab, BSN, RN, CPN, AMB-BC
10:30 AM - 11:00 AM	Clinical Pearls for RNs (clinic coordination, inpatient, outpatient)	Moderator TBD
11:00 AM	Closing Remarks	

PROGRAM COORDINATORS OF CHILD NEUROLOGY

Annual Educational Conference Agenda

November 11-13, 2024 (ALL TIMES IN PT)

Monday, November 11, 2024		
Coordinator Bootcamp	<i>The information covered is targeted for newer coordinators and will provide a solid refresher for experienced coordinators. Experienced coordinators should attend as input is always appreciated.</i>	
8:00 AM - 8:30 AM	Breakfast	
8:30 AM - 8:35 AM	Opening Remarks	Adam Finney President, Program Coordinators of Child Neurology Teri Behnke Vice-President, Program Coordinators of Child Neurology
8:35 AM - 9:15 AM	Program Coordinator, The First Year	Sherry Gibson Phoenix Children's, Phoenix, AZ
9:15 AM - 9:45 AM	ACGME PC Role/ Expectations	Adam Finney University of Colorado, Aurora, CO
9:45 AM - 10:15 AM	Prepping a PEC/CCC	Glenda Aaron Dell Children's Medical Center, Austin, TX
10:15 AM - 10:30 AM	Break	
10:30 AM - 11:00 AM	Digging into the ABPN	Melissa Gittings Oregon Health & Science University, Portland, OR Rebecca Strickland Medical University of South Carolina, Charleston, SC
11:00 AM - 12:00 PM	PD/PC Roundtable Discussion	Glenda Aaron Dell Children's Medical Center, Austin, TX
12:00 PM - 12:30 PM	NRMP Match Data Review	Adam Finney University of Colorado, Aurora, CO
12:30 PM - 2:00 PM	Lunch	

Tuesday, November 12, 2024

8:30 AM - 9:00 AM	Breakfast	
9:00 AM - 9:45 AM	Implicit Bias	Laura Konopka University of Colorado, Aurora, CO
9:45 AM - 10:30 AM	Resident Panel	Melissa Gittings Oregon Health & Science University, Portland, OR
10:30 AM - 10:45 AM	Break	
10:45 AM - 11:30 AM	Creating Inter-professional Development Through Patient Experiences	Liz Savic Johns Hopkins All Children's Hospital, Tampa, FL
11:30 AM - 12:00 PM	Parking Lot: Pre-conference Survey Results	Adam Finney University of Colorado, Aurora, CO
12:00 PM - 1:00 PM	Lunch	
1:00 PM - 2:15 PM	Artificial Intelligence - Don't Fall Behind	Adam Finney University of Colorado, Aurora, CO Channing Jackson University of Utah Health Science, Salt Lake City, UT
2:15 PM - 3:15 PM	ACGME Updates	TBD
3:15 PM - 4:00 PM	Parking Lot Discussion/Closing Comments	Adam Finney President, Program Coordinators of Child Neurology
5:00 PM - 7:00 PM	Program Coordinator Social Event	

Wednesday, November 13, 2024

8:30 AM - 9:00 AM	Breakfast	
9:00 AM - 9:05 AM	Welcome - Day 2	Adam Finney President, Program Coordinators of Child Neurology
9:05 AM - 10:00 AM	Reviewing IMG Applications	Frances Copeland SSM/Saint Louis University School of Medicine Cardinal Clennon Children's Hospital, St. Louis, MO
10:00 AM - 10:30 AM	Narrative Evaluations	Laura Konopka University of Colorado, Aurora, CO Dr. Liz Troy University of Colorado, Aurora, CO
10:30 AM - 10:45 AM	Break	
10:45 AM - 11:45 AM	Communication During Recruitment	Toni Davison University of Alabama Birmingham, Birmingham, AL
11:45 AM - 1:30 PM	Mentor Lunch	
1:30 PM - 2:15 PM	The Art of Saying No	Frances Copeland SSM Health Cardinal Clennon Children's Hospital, St. Louis, MO
2:15 PM - 2:30 PM	Break	
2:30 PM - 3:15 PM	Strategies for Mental and Emotional Resilience	Adam Finney University of Colorado, Aurora, CO
3:15 PM - 4:00 PM	Parking Lot Discussion and Closing Comments	Teri Behnke University of Michigan, Ann Arbor, MI
5:00 PM - 7:00 PM	Program Coordinator Social Event	

Industry-Sponsored Sessions

Industry-sponsored satellite sessions are independently staged, accredited, or non-accredited educational or product theater events. Corporate partners pay a gateway fee to make these accessible to attendees.

Satellite Seminar

Monday, November 11

Test Your Expertise in Rett Syndrome: A Live Medical Simulation on Diagnosis and Management

8:00 – 10:00 PM

Marriott Marquis San Diego Marina, San Diego Ballroom A

PRE-REGISTRATION

www.medscape.org/symposium/rett-patient-simulation

Note: Pre-registration does not guarantee seating. Onsite registration may be available, space permitting.



PROGRAM DESCRIPTION

Rett syndrome (RTT) is a severe and progressive neurodevelopmental disorder that is characterized by a variety of neurologic and behavioral features. Although RTT is a rare disorder, it is the second most common cause of severe intellectual disability among females, and early diagnosis is critical for pediatric patients to receive appropriate interventions. Using a patient case simulation, our faculty will help you navigate through guideline-directed criteria and testing to make a diagnosis of RTT and then develop a comprehensive management plan to treat the underlying disease state and relevant comorbidities.

LEARNING OBJECTIVES

Upon completion of this activity, participants will:

Demonstrate improved performance associated with

- Assessment of patients suspected of having Rett syndrome
- Diagnosis of Rett syndrome
- Development of a comprehensive management plan for patients with Rett syndrome

SPEAKERS

Timothy J. Feyma, MD

Shannon Standridge, DO, MPH

CREDITS AVAILABLE

For Physicians - Medscape, LLC designates this live activity for a maximum of *1.5 AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

GRANT/FUNDING SOURCE

Acadia Pharmaceuticals

Satellite Seminar

Tuesday, November 12

Patient, Provider, and Caregiver Connection: Pediatric Myasthenia Gravis - Current Treatment and Emerging Concepts

12:00 – 2:00 PM

Marriott Marquis San Diego Marina, San Diego Ballroom A

PRE-REGISTRATION

<https://www.gotoper.com/courses/patient-provider-and-caregiver-connection-pediatric-myasthenia-gravis-current-treatment-and-emerging-concepts>



Note: Pre-registration does not guarantee seating. Onsite registration may be available, space permitting.

PROGRAM DESCRIPTION

This educational activity is directed toward pediatricians, neurologists, and pediatric neurologists. Geneticists, metabolic specialists, psychologists, internists, and other clinicians involved in the management of patients with gMG are invited to attend.

LEARNING OBJECTIVES

- Select the signs and symptoms associated with pediatric gMG
- Develop management plans for pediatric patients with gMG based on patient-specific factors and considerations
- Summarize clinical trial data for emerging treatments aimed at targeting the underlying disease mechanisms associated with pediatric gMG

SPEAKERS

John Brandsema, MD

Attending Physician, Neuromuscular/General Neurology & Electromyography

Children's Hospital of Philadelphia, Philadelphia, PA

Abigail N. Schwaede, MD

Attending Physician, Neurology

Assistant Professor of Pediatrics (Neurology and Epilepsy)

Northwestern University Feinberg School of Medicine
Chicago, IL

Samuel J. Mackenzie, M.D., Ph.D.

Neuromuscular Medicine

Assistant Professor

Ambulatory Care Center, Strong Memorial Hospital
Rochester, NY

CREDITS AVAILABLE

This activity will be designated *1.25 AMA PRA Category 1.25 Credits™* for physicians.

GRANT/FUNDING SOURCE

Supported by an educational grant from Janssen Biotech, Inc.

Product Theater

Tuesday, November 12

Advancements in Rett Syndrome (RTT) Care

12:00 – 1:00 PM

Marriott Marquis San Diego Marina, Presidio Room

PROGRAM DESCRIPTION

Learn about the latest treatment approaches for managing patients living with RTT from the perspectives of RTT experts and a caregiver.

SPEAKERS

Shannon Standridge, DO, MPH, will present alongside another Rett expert and a caregiver of a patient with Rett.

GRANT/FUNDING SOURCE

Acadia Pharmaceuticals

Satellite Seminar

Tuesday, November 12

Spotlight on Infantile Spasms: Diagnosis, Treatment, and Beyond

5:00 – 7:00 PM

Marriott Marquis San Diego Marina, San Diego Ballroom A

PROGRAM DESCRIPTION

Pyros Pharmaceuticals is dedicated to addressing the urgent needs of patients with infantile spasms (IS), a rare and severe form of childhood epilepsy. We are proud to offer two approved vigabatrin therapies: VIGPODER™ (vigabatrin) for Oral Solution and VIGAFYDE™ (vigabatrin) Oral Solution—the first and only liquid vigabatrin available in the U.S. as of September 3rd. Our commitment extends beyond treatment; we are passionate about advancing education and accelerating the time to diagnosis in the hopes of improving outcomes for those affected by IS.

Join us at our symposium, “Spotlight on Infantile Spasms: Diagnosis, Treatment, and Beyond,” where leading experts in pediatric neurology, epilepsy, and related fields will convene to share insights, discuss challenges, and explore innovative approaches to managing this complex condition. This event is an unparalleled opportunity to engage with top physicians and thought leaders who are shaping the future of IS care.

SPEAKERS

TBA

GRANT/FUNDING SOURCE

Pyros Pharmaceuticals

Satellite Seminar

Wednesday, November 13

Enabling Pediatric Neurogenetics: Answers to 5 Common Questions

11:30 AM – 1:30 PM

Marriott Marquis San Diego Marina, San Diego Ballroom A

PRE-REGISTRATION

<https://eventregistration.illumina.com/CSN2024>

Note: Pre-registration does not guarantee seating. Onsite registration may be available, space permitting.



PROGRAM DESCRIPTION

Genetic testing in child neurology has increased dramatically in the past decade. With the introduction of any test, however valuable, comes questions of how best to integrate responsible testing into the clinical workflow. This session will be a practical guide to implementing genetic testing in your neurology practice, demystifying some of the common misconceptions. Meet leaders in child neurology and learn how they have leveraged the power of genetic testing while minimizing potential barriers. Following this session, child neurologists will recognize important considerations associated with genetic testing for their patients.

LEARNING OBJECTIVES

- Learn to incorporate genetic testing into neurology practice by tailoring to institutional resources
- Compare advantages and disadvantages of different genetic testing options in various clinical scenarios
- Integrate genetic testing results into patient care management
- Support patients and families through the genetic testing process

SPEAKERS

Kuntal Sen, MD, FACMG

Children's National Hospital, Washington DC

Danielle Nolan, MD

Corewell Health William Beaumont Children's Hospital, Royal Oak, MI

Stephanie Gandomi, JD

Southern California University of Health Sciences, Whittier, CA

Sophia Ceulemans, MS, CGC

Rady Children's Hospital, San Diego, CA

Donald Gilbert, MD, MS

University of Cincinnati and Cincinnati Children's Hospital, Cincinnati, OH

GRANT/FUNDING SOURCE

Illumina, Inc

Product Theater

Wednesday, November 13

Finding More Answers with Genetic Testing: Maximizing the Diagnostic Yield of Exome Sequencing

11:30 AM – 12:30 PM

Marriott Marquis San Diego Marina, Presidio Room

PROGRAM DESCRIPTION

Exome sequencing (ES) is an appropriate genetic test for many patients in a pediatric neurology practice. Depending on the reason for testing, ES typically has a diagnostic yield of 25-35%, which is substantially higher than either chromosomal microarray or fragile X testing. Results of testing can guide medical management, family educational and financial decisions, and outreach to support services. This session will highlight recent advances in ES that uncover more answers for more families. It will feature clinical data about ES performance and laboratory approaches to reanalysis. Advanced analysis tools that can increase the diagnostic yield, including RNA testing, will be reviewed.

SPEAKERS

Elizabeth Chao, MD, FACMG
Chief Medical Officer, Ambry Genetics
Assistant Professor, Division of Genetic and Genomics
Department of Pediatrics
University of California, Irvine School of Medicine

Erica Schindewolf, MS, LCGC
Genetic Counselor, Children's Hospital of Philadelphia
Undiagnosed Disease Program

GRANT/FUNDING SOURCE

Ambry Genetics

- Summarize the impact of non-seizure symptoms on the quality of life of individuals and families affected by Dravet and Lennox-Gastaut syndromes
- Discuss the evolving polytherapy treatment recommendations for Dravet and Lennox-Gastaut syndromes, including efficacy, safety, and drug-drug interactions
- Review therapies in development for the treatment of Dravet and Lennox-Gastaut syndromes

SPEAKERS

Kelly G. Knupp, MD, MSCS, FAES (Program Chair)
Professor of Pediatrics and Neurology
University of Colorado School of Medicine
Dravet Program Director
Division of Pediatric Neurology
Children's Hospital Colorado, Aurora, Colorado

Joseph E. Sullivan, MD
Murphy Parker Endowed Professor in Pediatric Epilepsy
Professor of Neurology and Pediatrics
University of California, San Francisco (UCSF)
Director
UCSF Benioff Children's Hospital Pediatric
Epilepsy Center of Excellence, San Francisco, California

Elaine C. Wirrell, MD, FRCPC
Professor and Chair of Child Neurology
Consultant Child Neurologist
Mayo Clinic, Rochester, Minnesota

CREDITS AVAILABLE

This activity is approved for 1.50 AMA PRA Category 1 Credit™

GRANT/FUNDING SOURCE

Jointly provided by Partners for Advancing Clinical Education (PACE) and Miller Medical Communications, LLC. This activity is supported by an independent educational grant from Takeda Development Center Americas, Inc.

Satellite Seminar

Wednesday, November 13

The Evolving Landscape of Dravet and Lennox-Gastaut Syndromes: A Focus on Early Diagnosis, Rational Polytherapy, and Non-seizure Symptoms

5:00 – 7:00 PM

Marriott Marquis San Diego Marina, San Diego Ballroom A

PRE-REGISTRATION

www.millermeded.com/111324

Note: Pre-registration does not guarantee seating. Onsite registration may be available, space permitting.



PROGRAM DESCRIPTION

This symposium will present ways in which the treatment paradigm for Dravet and Lennox-Gastaut syndromes is evolving to include not only seizure reduction but also an understanding of the caregiver burden and the impact of non-seizure symptoms.

Learning Objectives

- Identify clinical features and diagnostic challenges associated with Dravet and Lennox-Gastaut syndromes

Product Theater

Wednesday, November 13

ITF Therapeutics: Introducing Duvyzat™ (Givinostat)

5:00 – 6:00 PM

Marriott Marquis San Diego Marina, Presidio Room

PROGRAM DESCRIPTION

Session Description: Join our distinguished faculty as they discuss recognizing, diagnosing, and managing patients with Duchenne Muscular Dystrophy (DMD). They will provide an overview of the disease and review the clinical profile of Duvyzat™ (Givinostat), a treatment option for DMD in patients 6 years of age and older.

SPEAKERS

TBA

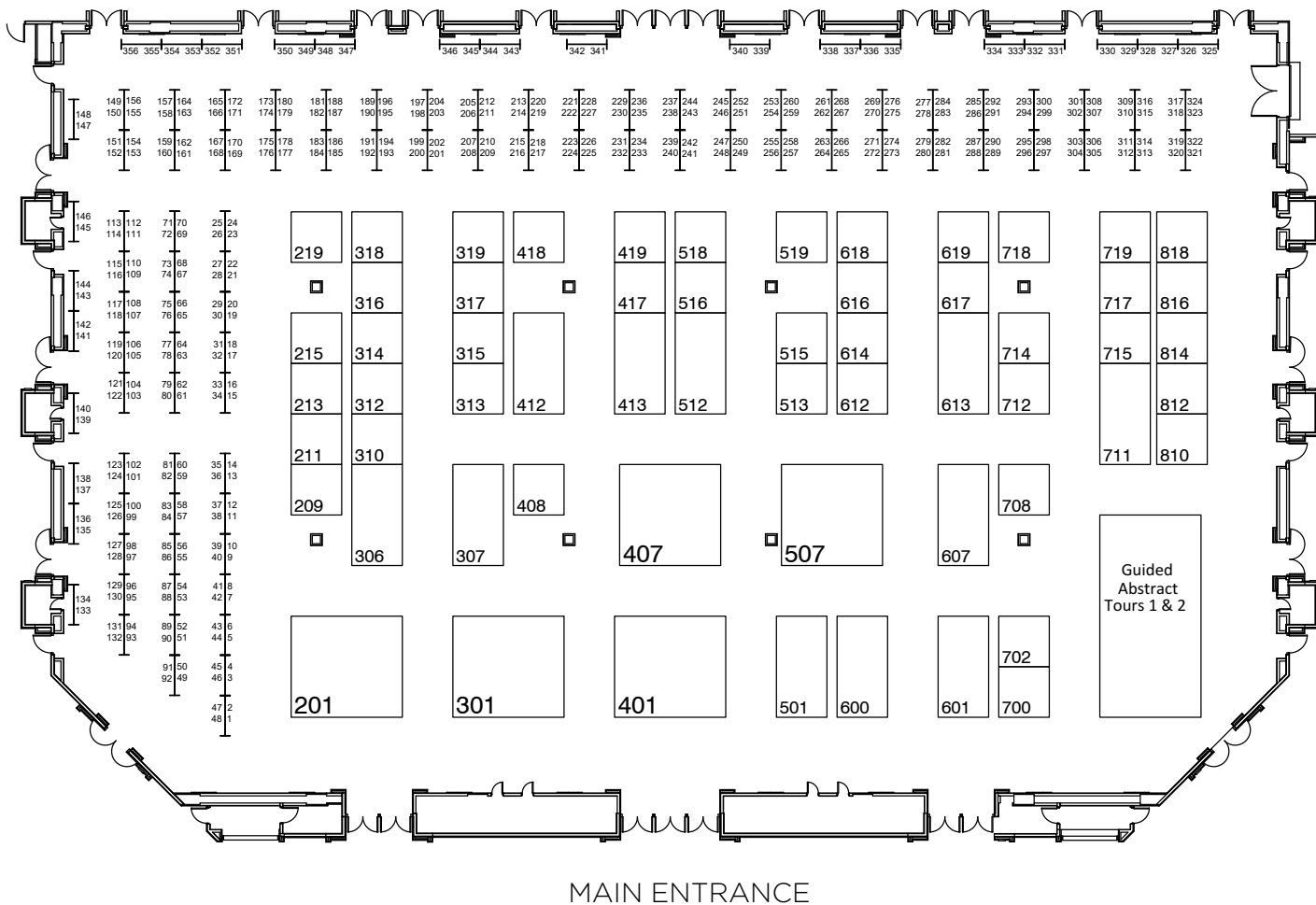
GRANT/FUNDING SOURCE

ITF Therapeutics LLC



Exhibits, Poster Reviews, and Guided Abstract Tours Map

Marriott Marquis San Diego Marina, Pacific Ballroom



Exhibitors

CNS CORPORATE MISSION PARTNER

Acadia Pharmaceuticals Inc. (#507)

Guided by our mission to advance breakthroughs in neuroscience to elevate life, Acadia Pharmaceuticals is dedicated to creating a brighter future for people living with rare diseases. We launched the first and only FDA-approved treatment for Rett syndrome and are actively working to broaden access to this vital therapy worldwide.



EVENT SUPPORTER

Alexion AstraZeneca Rare Disease (#711)

Alexion AstraZeneca Rare Disease is a leader in rare diseases for over 30 years. Alexion is focused on serving patients and families affected by rare diseases and devastating conditions through the discovery, development, and commercialization of life-changing medicines.



CNS CORPORATE ANNUAL PARTNER

Ambry Genetics (#501)

Ambry Genetics, a part of REALM IDx, excels at translating scientific research into clinically actionable test results based upon a deep understanding of the human genome and the biology behind the genetic disease. www.ambrygen.com



American Board of Psychiatry & Neurology, Inc. (ABPN) (#211)

The American Board of Psychiatry and Neurology serves the public interest and the professions of psychiatry and neurology by promoting and assessing the competence of psychiatrists and neurologists and by establishing standards for initial and continuing certification programs.

Association of Child Neurology Nurses (ACNN) (#619)

The Association of Child Neurology Nurses is an international nonprofit organization of nurses and other health care professionals caring for children with neurological conditions. ACNN provides educational opportunities at national and regional conferences, virtual learning through online webinars, nursing excellence awards, research support, newsletters, and opportunities for networking. Additional information can be found at www.neurologynurses.org.

Baylor Genetics (#310)

A pioneer of precision medicine for over 45 years, Baylor Genetics is a leading diagnostic genomics partner offering a full spectrum of clinically relevant genetic testing, including Whole Genome Sequencing, Whole Exome Sequencing, and focused panels.

BioMarin Pharmaceutical Inc. (#818)

BioMarin is a world leader in developing and commercializing innovative therapies for rare diseases driven by genetic causes. With a 20-year history, BioMarin remains steadfast to its original mission—to bring new treatments to market that will make a big impact on small patient populations. Visit www.biomarin.com to learn more.

Boys Town National Research Hospital (#714)

Boys Town Pediatric Neuroscience offers an array of highly specialized clinics for conditions affecting the brain, nerves and spinal cord in a boutique clinic setting in Omaha, Nebraska. We are changing the way America cares children with direct connections to Boys Town research and the world's most advanced MEG imaging.

Catalyst Pharmaceuticals, Inc. (#301)

Catalyst is committed to developing and commercializing novel medicines for patients living with rare and difficult to treat neurological diseases.

LOCAL HOST

CHOC Neuroscience Institute (#616)

The CHOC Neuroscience Institute is one of the leading pediatric programs in the nation, providing comprehensive, state-of-the-art diagnostic evaluation, treatment, and surgical care to patients living with neurological conditions. CHOC is consistently named among the Best Children's Hospitals for neurology and neurosurgery by *U.S. News & World Report*.



Egetis Therapeutics, US (#719)

At Egetis Therapeutics, we “**care for the rare**”, focusing our efforts on developing treatments for serious rare diseases where there are no current therapeutic options. Our aim is to ensure patients with the rarest of diseases can access the treatments they need to improve and extend their lives.

EVENT SUPPORTER

Emalex Biosciences Inc. (#600)

As a portfolio company of Paragon Biosciences, Emalex is unceasing in its pursuit to improve the lives of people living with central nervous system disorders through meaningful scientific breakthroughs. Visit us to learn more about an investigational study for patients with Tourette Syndrome.



FamilieSCN2A Foundation (#312)

Our mission is to accelerate research, foster community, and advocate to improve the lives of those impacted by SCN2A Related Disorders (SRDs) worldwide. SCN2A is a gene linked to early-onset epilepsy and is a leading genetic cause of autism. Explore further or partner with us today!

First Choice Neurology (#814)

First Choice Neurology, Physician-Owned/Managed, supports Child and Adult neurologists, blending tradition and innovation. Existing practices can join while keeping their historic patterns, and new neurologists can join established locations or start their own practice within a large group. Connect with us today to explore the possibilities!

Fulgent Genetics (#718)

Fulgent Genetics is a full-service genomic testing company built around a foundational technology platform. Through our diverse testing menu, Fulgent is focused on transforming patient care in pediatric neurology, as well as in oncology, anatomic pathology, infectious and rare diseases, and reproductive health.

GeneDx (#708)

At GeneDx, we believe that everyone deserves personalized, targeted medical care—and that it all begins with a genetic diagnosis. Fueled by one of the world's largest rare disease data sets, our exome and genome tests translate complex genomic data into clinical answers. It all starts with a single test.

Hope for HIE (#617)

Hope for HIE is the premiere global patient advocacy and support charitable organization for neonatal and pediatric-acquired Hypoxic Ischemic Encephalopathy advancing advocacy, awareness, education and research to improve the quality of life for children and families, and decrease the incidence and impact.

Invitae (#408)

Leading medical genetics company trusted by patients and providers to deliver genetic information using digital technology. Provide accurate and actionable answers to strengthen medical decision-making for individuals and their families. Applying a rigorous approach to data and research to bring comprehensive genetic information into mainstream medicine. Visit www.invitae.com

Exhibitors CONTINUED

EVENT CONTRIBUTOR

Ionis Pharmaceuticals, Inc. (#519)

For more than three decades, Ionis has united groundbreaking science and technology with relentless passion to discover and deliver RNA-targeted medicines enabling better futures for people living with serious diseases. We've discovered multiple marketed medicines and have a leading pipeline in neurology, cardiology and other areas of high patient need.



ITF Therapeutics (#810)

ITF Therapeutics, a subsidiary of Italfarmaco Group, was established in January 2024 and received FDA approval on March 21, 2024 for DUVYZAT (givinostat). DUVYZAT, an HDAC inhibitor for treatment of Duchenne's Muscular Dystrophy, is the first nonsteroidal drug approved to treat patients with all genetic variants of DMD. DUVYZAT will be available in Q3 2024.

J2 Biopharma (#712)

J2 Bio-Pharma is an organization with a focus on child friendly epilepsy products. Our company's primary focus is to provide more medical options to neurologists and epileptologists that can help improve the quality of life for children living with epilepsy. We invite you to visit our booth to gain more insights about our organization and other promising products we may have in the pipeline.

Jazz Pharmaceuticals (#314 & 319)

Jazz Pharmaceuticals is a global biopharmaceutical company whose purpose is to innovate to transform the lives of patients and their families. We are dedicated to developing life-changing medicines for people with serious diseases—often with limited or no therapeutic options. Please visit www.jazzpharmaceuticals.com for more information.

Kennedy Krieger Institute (#318)

Located in the Baltimore-Washington, D.C., region, Kennedy Krieger Institute is internationally recognized for improving the lives of tens of thousands of children, adolescents and adults with neurological, rehabilitative or developmental needs through inpatient and day hospital programs, outpatient clinics, home and community services, education, and research.

Le Bonheur Children's Hospital (#812)

The Le Bonheur Neuroscience Institute is a nationally ranked neuroscience program by *U.S. News* and is home to one of the largest pediatric surgical brain tumor programs in the country. Our team includes the pioneers of MEG technology, researchers in epilepsy treatment and leaders in international neurological associations.

LinusBio (#317)

LinusBio is a patient-centric, breakthrough science precision exposome sequencing company headquartered in North Brunswick, NJ. LinusBio's proprietary platform introduces novel biomarkers that can facilitate discovery across various health conditions – from autism to gastrointestinal disorders to ALS to renal disease and cancers, utilizing a single strand of hair.

EVENT CONTRIBUTOR

LivaNova (#607)

VNS Therapy™ is a neuromodulation treatment designed for people with drug-resistant epilepsy 4 years of age and older with partial onset seizures. It can safely lead to fewer and shorter seizures and better recovery after seizures.



Marinus Pharmaceuticals (#513 & 612)

Marinus is a commercial-stage pharmaceutical company dedicated to the development of innovative therapeutics for seizure disorders. The Company first introduced FDA-approved prescription medication ZTALMY® (ganaxolone) oral suspension CV in the U.S. in 2022. For more information about Marinus visit www.marinuspharma.com.

National Association of Epilepsy (#717)

NAEC is a non-profit association with a membership of more than 300 specialized epilepsy centers in the United States. The Association supports epilepsy centers in delivering quality comprehensive care to people with epilepsy, by setting standards of care, advocating for access to high quality epilepsy center services, and providing knowledge and resources to its member centers.

National Institute of Neurological Disorders and Stroke (NINDS) (#215)

The National Institute of Neurological Disorders and Stroke (NINDS), part of the National Institutes of Health, provides research support, common data elements, clinical trials, a Migraine Trainer app, and free publications for patients and families on epilepsy, Batten disease, headache, brain injury, and other neurological disorders.

Nationwide Children's Hospital (#413)

Nationwide Children's is ranked in the top six best children's hospitals for Neurology and Neurosurgery by US News. Unique areas of focus include movement disorders, stroke, spinal muscular atrophy, and muscular dystrophy – including groundbreaking clinical and translational research. We are also top 10 in NIH funding among freestanding children's hospitals.

CNS CORPORATE ANNUAL PARTNER

Neurelis, Inc. (#601 & 700)

Neurelis, Inc. is an innovation-driven neuroscience company focused on the development and commercialization of product candidates and innovative delivery technologies for the broader central nervous system (CNS), including epilepsy and psychiatry. In 2020, Neurelis reached a milestone in patient care with its first FDA-approved treatment. For information, please visit <http://www.neurelis.com>.



Neuren Pharmaceuticals (#816)

Neuren Pharmaceuticals (ASX: NEU) is developing new therapies for highly debilitating neurodevelopmental disorders that emerge in early childhood and are characterized by impaired connections and signaling between brain cells. Neuren's deep expertise in neurodevelopmental disorder therapy has been accumulated over years of clinical development.

NS Pharma (#201)

NS Pharma is a highly focused, research-driven biopharmaceutical company working in ultra rare diseases. Our current goal is to optimize the potential of exon-skipping therapy in treating Duchenne muscular dystrophy (DMD) while investigating alternative therapies within this disease state and others to ultimately help patients and caregivers.

Orchard Therapeutics (#613)

Orchard Therapeutics, a Kyowa Kirin company, is a global gene therapy leader focused on ending the devastation caused by genetic and other severe diseases by discovering, developing, and commercializing new treatments that tap into the curative potential of hematopoietic stem cell (HSC) gene therapy.

Pediatric Epilepsy Surgery Alliance (#417)

As a portfolio company of Paragon Biosciences, Emalex is unceasing in its pursuit to improve the lives of people living with central nervous system disorders through meaningful scientific breakthroughs. Visit us to learn more about an investigational study for patients with Tourette Syndrome.

Pediatric Search Partners (#316)

Pediatric Search Partners is a boutique search firm dedicated solely to children's healthcare. Since 2009, we've connected pediatric neurologists, epileptologists, and leaders with life-giving opportunities. Visit us to discuss your career aspirations and how we can help you find the perfect match for your goals and dreams.

PreventionGenetics (#618)

PreventionGenetics has been providing high-quality genetic testing to patients, researchers and clinicians around the world for 20 years. Acquired in 2021 by global cancer diagnostics leader, Exact Sciences, PreventionGenetics provides tests for nearly all clinically-relevant genes including whole-exome and whole-genome sequencing.

Pyros Pharmaceuticals (#407)

Pyros Pharmaceuticals is elevating the standard of care for infantile spasms with treatment options that can make a significant difference for affected children. Our enhanced therapies and comprehensive support services will help providers and caregivers by easing navigation through the complexities of the patient journey. Please visit www.pyrospharma.com for more information.

Exhibitors CONTINUED

LOCAL HOST

Rady Children's Hospital - San Diego (#419)

Rady Children's Hospital-San Diego is a nonprofit, 511-bed pediatric-care facility dedicated to excellence in care, research and teaching in San Diego, California. The Rady Children's Division of Neurology ranks among the top pediatric programs in the nation and are dedicated to providing the highest quality care.



Religen Inc. (#213)

ReligenDX with its flagship product - folate receptor autoantibody test (fratnow.com) , focused on developing diagnostic solutions in Neurological Disease, Mitochondrial Medicine & Genetics. We work with parents, patients, and healthcare providers to find critical and actionable information through diagnostic testing, playing a pivotal role in the course of treatment.

RosmanSearch (#715)

RosmanSearch, the leader in specialized physician recruitment, merges data-driven insights and a tenured team of specialists to strategically place experts in neurosurgery, neurology, urology, gastroenterology, and hospitalist medicine, ensuring each match—whether permanent, executive, or locum tenens—elevates healthcare standards with unmatched precision.

Sarepta Therapeutics (#401 & 307)

Sarepta Therapeutics is on an urgent mission: engineer precision genetic medicine for rare diseases that devastate lives and cut futures short. Our focus is on Duchenne and limb-girdle muscular dystrophies, and we have 40+ programs in development across 3 technologies - gene therapy, RNA and gene editing.

Sentynl Therapeutics, Inc. (#313)

Sentynl Therapeutics is a U.S.-based biopharmaceutical company focused on bringing innovative therapies to patients living with rare diseases by sourcing effective and well-differentiated products across therapeutic areas. Sentynl is committed to the highest ethical standards and compliance with all applicable laws, regulations, and industry guidelines. For more information, visit www.sentynl.com.

SFI Health (#418)

Equazen®, by SFI Health, harnesses Omega-3 and Omega-6 to aid brain development, targeting cognitive disorders and ADHD. Its 9:3:1 EPA:DHA ratio is backed by clinical research, supporting children aged 3+ with learning and behavioral issues.

SpringWorks Therapeutics, Inc. (#512)

SpringWorks is a commercial-stage biopharmaceutical company applying a precision medicine approach to developing and delivering life-changing medicines for people with severe rare diseases and cancer. We have a diversified targeted therapy pipeline spanning solid tumors and hematological cancers. For more information, visit <http://www.springworkstx.com> and follow @SpringWorksTx on X and LinkedIn.

CNS CORPORATE ANNUAL PARTNER

Theranica (#702)

Nerivio is the first-and-only REN wearable that harnesses the natural power of your brain to shut off migraine pain and symptoms without drugs or disruption, so adolescents can safely and effectively prevent and treat migraine disease. It is FDA-cleared as a first-line prescribed treatment for ages 12+.

theranica

EVENT SPONSOR

UCB, Inc. (#306 & 209)

At UCB, we come together everyday laser-focused on a simple question: How will this create value for people living with severe diseases? We are a global biopharmaceutical company committed to innovation to improve the lives of people with neurological and immunological diseases, finding solutions to meet their unique needs.

 Inspired by patients.
Driven by science.

LOCAL HOST

UCLA David Geffen School of Medicine (#516)

UCLA's Division of Pediatric Neurology within UCLA's David Geffen School of Medicine and UCLA Mattel Children's Hospital has several educational programs to offer trainees, a robust and unique clinical practice, and a variety of research to offer. The Division prides itself on creating a family environment for faculty, trainees, and staff.



Ultragenyx (#219)

Ultragenyx is a biopharmaceutical company committed to bringing novel products to patients for the treatment of serious rare and ultrarare genetic diseases. The company

United Council for Neurologic Subspecialties (#518)

UCNS provides physician certification and fellowship accreditation for neurologic subspecialties including Neonatal Neurocritical Care, Neurocritical Care, Neuro-oncology, Headache Medicine, Autonomic Disorders, Behavioral Neurology & Neuropsychiatry, Clinical Neuromuscular Pathology, Interventional Neurology, and Neuroimaging. Over 200 accredited training programs and 3,000 certified physicians in the U.S. and Canada. Find out more at www.ucns.org.

Upsher-Smith Laboratories, LLC (#412)

A member of Bora Group, Upsher-Smith Laboratories, LLC is a trusted U.S. pharmaceutical company striving to improve the health and lives of patients through an unwavering commitment to high-quality products and sustainable growth. For more information, visit www.upsheer-smith.com.

UT Health Austin Pediatric Neurosciences at Dell Children's (#315)

UT Health Austin Pediatric Neurosciences at Dell Children's is a clinical partnership between Dell Children's Medical Center and UT Health Austin, the clinical practice of the Dell Medical School at The University of Texas at Austin. Our comprehensive care approach prioritizes family-centered treatment, collaboration among specialists, and inter-institutional partnerships.

Zevra Therapeutics (#515 & 614)

Zevra is a rare disease company combining science, data, and patient needs to create transformational therapies for diseases with limited or no treatment options. Our mission is to bring lifechanging therapeutics to people living with rare diseases.





We are glad that you joined us at the Marriott Marquis San Diego Marina.



Mark Your Calendar for Future Meetings

