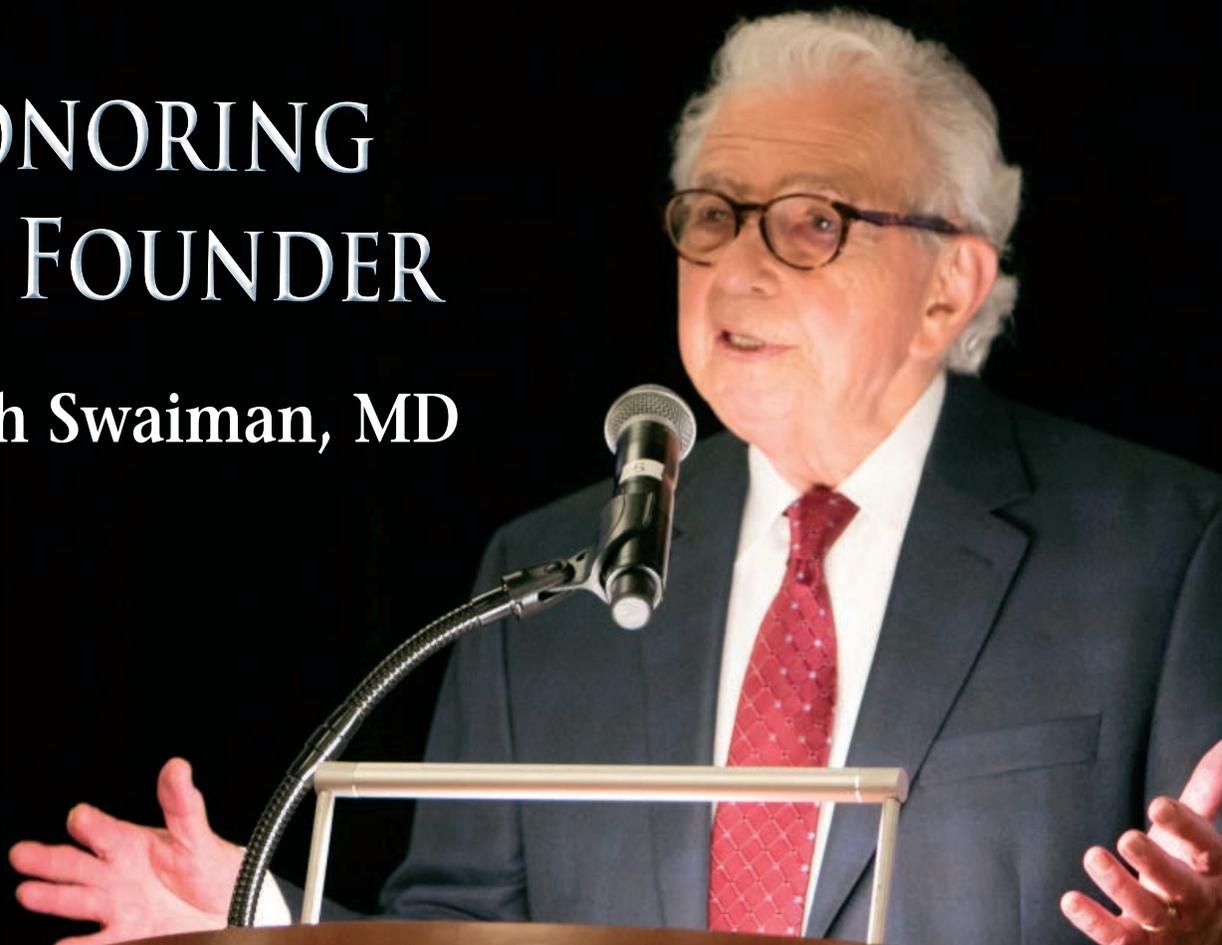


CCHILD NEUROLOGY SOCIETYONNECTIONS

Bringing CNS Members Together to Make Children's Lives Better

HONORING OUR FOUNDER

Kenneth Swaiman, MD



TOGETHER • APART virtual2020

OCTOBER 12-23, 2020

Sharing Knowledge • Sowing Friendships • Spreading Hope



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OCTOBER 12-23, 2020



16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting

Sharing Knowledge
Sowing Friendships • Spreading Hope

CONTENTS

FALL 2020

CONNECTING WITH COLLEAGUES

- 4 LETTER FROM THE PRESIDENT
- 6 IN MEMORIAM – KENNETH FRED SWAIMAN, MD
- 10 LETTER FROM THE EDITOR
- 12 2020 CNS AWARD RECIPIENTS
- 19 ICNA•CNS | TOGETHER•APART VIRTUAL 2020
 - 22 YOU ARE INVITED!
 - 24 10 THINGS TO KNOW BEFORE YOU GO
 - 30 SCHEDULE
 - 79 SCHEDULE AT A GLANCE
 - 85 REGISTRATION
 - 86 INDUSTRY-SPONSORED SEMINARS & PRODUCT THEATERS
 - 89 SPONSOR/EXHIBITORS

CONNECTING WITH PARTNERS

- 94 PROFESSORS OF CHILD NEUROLOGY
- 96 PROGRAM COORDINATORS OF CHILD NEUROLOGY
- 97 ASSOCIATION OF CHILD NEUROLOGY NURSES
 - 98 ACNN AWARD RECIPIENTS
 - 102 VIRTUAL+VITAL ACNN CONFERENCE SCHEDULE
- 104 CHILD NEUROLOGY FOUNDATION

CONNECTING WITH THE FUTURE

- 107 PERSONNEL REGISTRY



Child Neurology Society
1000 West Cty Rd. E, Suite 290
St. Paul, MN 55126
Tel: 651/486-9447
Fax: 651/486-9436
Email: nationaloffice@
childneurologysociety.org
www.childneurologysociety.org

Editor: Daniel Bonthius, MD, PhD
Managing Editor: Roger Larson, CAE

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CONNECTING WITH COLLEAGUES

Letter from the President



“We have come a long way together...”

Phillip L. Pearl, MD

***“Fall arrived at last.
Order returns to the universe.
A new school year, autumn
leaves, the CNS meeting!
We’ve come so far
since last year in Charlotte!”***

***“Come so far?! This bleak
year has been a mess.
The worst pandemic in a century.
And we haven’t gone anywhere.
I’m doing this meeting
from home!”***

“Yes...I hear you...”

Our annual rite-of-fall pilgrimage to the CNS meeting feels very different this year, as has the rest of life. But we have come a long way together. In the stillness of the early stages of COVID-19, as society grounded to a veritable halt, the CNS sprang into action. Early steps focused on ethical challenges, especially the allocation of limited resources and importance of not squandering them or delivering disproportionate care, and our Ethics committee was at the forefront (Graf et al 2020). We pivoted to assembling a toolkit for telemedicine, and later provided resources to help gradually and safely reopen practices, with special thanks to our Telemedicine task force and Practice Committee. We were compelled to recommend new guidelines for the evaluation and treatment of one of our distinct populations, children with infantile spasms, and again turned to the Practice Committee, which collaborated closely with the Pediatric Epilepsy Research Consortium (Grinspan et al 2020a, b). The Research Committee focused on prioritizing research goals at the call of NINDS, with revisions predicated upon the pandemic (Bonkowsky et al, in submission). And as social unrest unfolded in some of our country’s darkest moments, we responded with genuineness and resolve (Pearl et al 2020), expanding our original pledge in October 2019 to appoint a diversity officer to forming a task force commissioned to explore and design a Diversity and Leadership Development Program that would complement and build on programming

offered by the AAN and AES, among others. These are just a few selected areas that have compelled focused attention and action within the CNS throughout the year.

As we gather together for this International Child Neurology Conference, however virtual, I would like to point out some special features and events of interest to all. Jon Mink and the Scientific Program Planning Committee have assembled a breathtaking array of sessions covering an astonishing breadth and depth of topics in pediatric neurology. We continue to feature robust ancillary programming, including the Neurobiology of Disease in Childhood Symposium organized by Bernie Maria, the Child Neurology Foundation symposium which this year will cover the diagnostic odyssey in genetic testing, and the 5th Annual Jack Pellock Residents Seminar on Epilepsy for senior child neurology trainees. We are grateful for the support provided the Pellock Seminar through a five-year grant from the Pediatric Epilepsy Research Foundation (PERF). As the host for this year's international congress, we are pleased to offer a special education and entertainment series on American Creativity, Ingenuity and Diversity; for more on that, see pages 28.

My fervent hope is that you sample the many offerings made available during this two week virtual conference thanks to the extraordinary efforts by our national office staff. Special thanks are owed to Executive Director Roger Larson, Associate Director Sue Hussman, the ever friendly, ever-reliable Kathy Pavel and Emily McConnell, and this year's contracted videographer responsible for capturing nearly 300 symposia presentations, Richard Kearney .

Beyond this year's challenging but promising conference, other activities continue. We successfully renegotiated a contract to continue offering the *Annals of Neurology* as our societal journal in partnership with the American Neurological Association, with online access expanded to include CNS members of all categories (only Active Members previously received the print journal). The ANA has been a strong partner in publishing content that is very germane to child neurology and developmental neuroscience. A recent search has been initiated for a new rotation for the Editor-in-Chief position, and interested persons are encouraged to inquire: <https://myana.org/publications/annals-neurology-editor-chief-job-description>.

CNS committees are already setting ambitious agendas for the next year as is the CNS Executive Committee with four newly elected officers: Bruce Cohen – President Elect, Lori Jordan – Secretary-Treasurer, and new Councillors Audrey Brumback and Sonia Partap. While Bruce and Lori move up from previous positions on the Board as Secretary-treasurer and Councillor for the South, we will miss the passion and

perspective of two board members rotating off, without whom the momentum and accomplishments of this past year would not have been possible: Past-President Jonathan Mink and Councillor for the West Mark Wainwright.

We are eagerly looking forward to gathering together next fall for our 50th/Golden Anniversary meeting in Boston. We will pay homage to our first fifty years while also looking forward. To that end, Steve Ashwal is working feverishly on a second edition of the *Founders of Child Neurology* book first published in 1989; this will be expanded into the *Founding, Evolution, and Development of Child Neurology* with updates covering seminal figures shaping the 2nd half of 20th Century. The very recent loss of CNS Founder and First President Ken Swaiman has led to many members of the society sending Steve and Phyllis Sher, CNS member and Ken's widow, stories about their contact with Dr. Swaiman as a colleague, mentor, teacher, and friend. If you would like to send a personal story, please do so to either Phyllis (pksher3@gmail.com) or Steve (sashwal@llu.edu); they would appreciate your thoughts.

And in time we will roll out the exciting new ventures in place to engage our membership, recruit trainees and junior members, reinvigorate careers at all levels, and bring the best of pediatric neuroscience to all of us.

Enjoy the conference!

Phillip L. Pearl, M.D.
President, Child Neurology Society
Director of Epilepsy and Clinical Neurophysiology
William G. Lennox Chair, Department of Neurology
Boston Children's Hospital
Professor of Neurology, Harvard Medical School
Music and Health Institute, Berklee College of Music

Citations

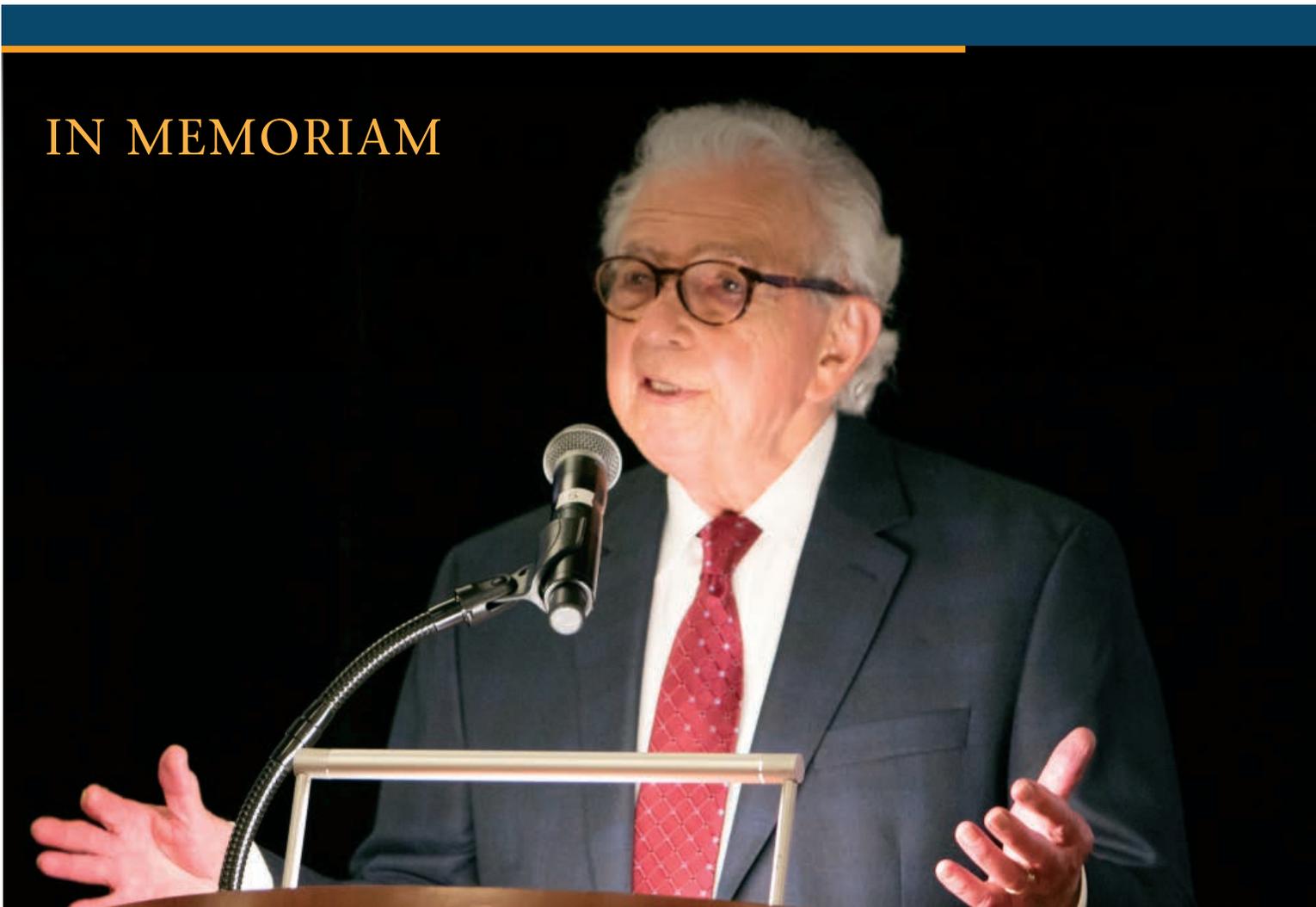
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IN MEMORIAM



Kenneth Fred Swaiman, MD

November 19, 1931 - September 18, 2020

Ken Swaiman was a visionary who has played a universally recognized, pivotal and remarkable role in the development of child neurology. He initiated the founding of the Child Neurology Society, the Professors of Child Neurology and the Child Neurology Foundation, and the publication of what is regarded as the primary textbook in the field, *Pediatric Neurology: Principles and Practice*. He began the journal, *Pediatric Neurology*, one of the major pediatric neurological journals and served as its editor from 1984-2012. For these and many other accomplishments, Ken was honored by the Child Neurology Society at the 2017 Legacy Reception.

Ken, although born in St. Paul (1931), was raised in Minneapolis, Minnesota. His Lithuanian parents, before meeting, separately immigrated to the United States, met

in St. Paul, and moved to Minneapolis. Ken attended the University of Minnesota, earning degrees in Liberal Arts (Magna Cum Laude, 1952), Science (1953), and Medicine (1955) and then joined a rotating internship at the Minneapolis General Hospital (1955-56), followed by a Pediatric residency and Chief residency at the University of Minnesota Hospitals (1956-58). This was followed by two years as Chief of Pediatrics at a US Army Hospital (Ft. McPherson, GA). He returned to Minnesota where he was an NIH-sponsored 'Special Fellow in Pediatric Neurology' (1960-63) under the mentorship of Dr. A.B. Baker, one of the founders of the American Academy of Neurology (1948). Ken received board certifications from the American Board of Pediatrics (1960), the American Board of Psychiatry and Neurology (1966) and the American Board of Psychiatry and Neurology, with Special Competence in Child Neurology (1969).



First CNS Executive Committee: Standing (l-r): John Menkes, Isabelle Rapin, Gerald Fenichel, Kenneth Swaiman, Richard Allen, Manuel Gomez, James Schwartz

Ken joined the Pediatric and the Neurology faculties at Minnesota (1963) and within a decade became a full Professor in both departments. He was Director of the Pediatric Neurology Training Program and Director of Pediatric Neurology (1972), serving in those capacities until 1998. During his career, Ken belonged to 20 professional organizations. He engaged in basic science research: GABA and phenylalanine metabolism, metabolic abnormalities in pediatric neuromuscular conditions, the effects of malnutrition on the developing brain, and clinical disorders, including acid maltase deficiency, sea blue histiocytosis and the effects of iron and other metals on cerebral energetics. Ken's interest in clinical teaching and research investigation, and transmitting this information to the trainees in his program and worldwide, was always in the forefront of his thoughts. He held leadership positions in key child neurology organizations, including the Child Neurology Society (CNS, First President 1972-1973), International Child Neurology Association (Executive Committee 1970-1979), Professors of Child Neurology (PCN, First President 1978-80) and the Child Neurology Foundation (CNF, First President 2000-2003). Ken was also on many National Institutes of Health Study Sections and has shared his knowledge as a visiting professor giving over 50 special lectures throughout the United States and in many countries worldwide.

Trainees and Awards. Ken served on 15 editorial boards of major scientific journals. He also served as a board examiner for the American Board of Psychiatry and Neurology. He has received numerous awards, with the three most prestigious being the Hower award (1981), the highest award given by the CNS to an individual who is highly regarded as an outstanding teacher and scholar, and additionally, has given a high level of service to the CNS; the Founder's Award at the 25th anniversary meeting of



"Minnesota Twins." Ken Swaiman and Bruce Berg: both 1) native-born Minnesotans, 2) proud alumni of the University of Minnesota (undergraduate and medical school), 3) Presidents of the Child Neurology Society, 4) Presidents of the Professors of Child Neurology, and 5) recipients of the CNS Hower Award.

the CNS (1996); and the American Academy of Neurology Lifetime Achievement Award for Neurologic Education (2005).

During his tenure at Minnesota, Ken trained over 80 child neurologists and he felt that contact with his residents was one of his prime motivating forces for beginning all of the organizations that he started. He felt that the role of teacher and mentor was the most important responsibility that a faculty member can have. His trainees came from all over the world and went on to provide continuing education in the U.S. and in their home countries.

continued on next page



Longtime colleague, friend, and fellow past-CNS President Paul Rosman presented Ken with a “supplement” to the “Founders Award” given to him at the 25th Anniversary Meeting of the CNS.

Child Neurology Society. The first Accreditation Council for Graduate Medical Education (ACGME) specialty board devoted to individuals with neurological and psychiatric disorders, the American Board of Psychiatry and Neurology (ABPN), was established in 1934. Another 34 years elapsed before Child Neurology was recognized as a distinct neurology subspecialty (American Board of Psychiatry and Neurology, with Special Competence in Child Neurology, 1968). Having long recognized the uniqueness of child neurology, Ken gathered together a small group of senior Midwest pediatric neurologists in 1971 and the following year, he founded the CNS (1972), holding the first meeting at the University of Michigan. There, the Society was incorporated, by-laws were created, an Executive Board was formed, and plans were made to hire administrative staff. The formation of the CNS was a major force in the expansion of Pediatric Neurology training programs, and many more medical students and residents decided to pursue a career in pediatric neurology.

Professors of Child Neurology. The Association of University Professors of Neurology (AUPN), one of the principal organizations involved in the training of neurologists, held its first meeting in 1968 to address training, legislative, workforce and research funding issues and to serve as a liaison with many organizations. Realizing the importance of having a parallel organization for academic child neurologists, Ken founded the PCN with the help of Bruce Berg (1978), with Ken serving as its first President. The PCN meets at the CNS annual meeting and serves many roles including support of training programs, program directors, coordinators and residents, as well as serving as the interface with multiple other organizations

(CNS, ACGME and ABPN). Ken was a tireless advocate for improving the quality of pediatric neurological education, the advancement of the field, and the means to increase the knowledge and capability of pediatric neurologists.

Child Neurology Foundation. Ken founded the CNF in 1999, recognizing the need to support the outreach of child neurologists and support of families and children with neurological disorders. He was the CNF’s first President and he was instrumental in securing the resources to start the organization’s Researcher in Training and Scientific Awards. Such was the trust in the future of the Foundation that significant industry support was obtained through Ken’s and Roy Elterman’s efforts. More recently, the CNF redirected its efforts to focus on the needs of families and children, and it conducts unique symposia at the annual CNS meeting.

Pediatric Neurology: Principles and Practice. The first textbook solely devoted to the entire field of Child Neurology appeared in 1845 (Ludwig Mauthner). Over the ensuing century, additional monographs were written by Bernard Sachs (1895), James Taylor (1905), Martin Theimich and Julius Zappert (1910), Ludwig Bruns (1912), George Peritz (1912), Bronson Crothers (1926), and Frank Ford (1937). For a variety of reasons, comprehensive texts devoted to the field did not appear until that of John Menkes (1974), the first edition of the book by Ken Swaiman and Frank Wright (1975) and the textbook by Jean Aicardi (1992). The book, *“The Practice of Pediatric Neurology,”* edited by Ken and Frank Wright and the subsequent 1982 edition were internationally acclaimed. Ken then became sole editor of the next edition (1989) when the title changed to *“Pediatric Neurology: Principles*



Ken and Ray Chun: longtime friends, tennis partners and members of the gathering in LaCrosse, WI of midwestern child neurologists who drafted plans for a national organization of child neurologists.



Ken with Steve Ashwal, his one-upon-a-time trainee at Minnesota, and longtime collaborator editing successive editions of *Swaiman's Pediatric Neurology*.

and Practice," with subsequent editions published in 1994, 1999, 2006, 2012 and 2017. As the book grew in size and coverage, additional editors joined Ken: Steve Ashwal (1999), Donna Ferriero (2006), Nina Schor (2012), and Andrea Gropman, Richard Finkel, Phillip Pearl, and Michael Shevell (2017). The growth of the discipline is documented by the fact that the number of pages and chapters has grown greatly: from 40 chapters/1,082 pages in 1975 to 170 chapters in 2017 (online version of >3,500 pages; shortened print version of 1432 pages).

The Journal, 'Pediatric Neurology'. Although there were several journals that covered neurological disorders, it was in 1951 that the first issue of *Neurology*, the official journal of the American Academy of Neurology (AAN) appeared. Then, in 1975, the American Neurological Association founded the *Annals of Neurology*. Shortly thereafter and with a certain degree of debate and controversy, the CNS became co-sponsors of the *Annals*, with all society members getting a subscription to the *Annals* as part of their dues. Ken described in detail the process that led to his decision to develop a journal solely devoted to child neurology and within several years (1985), "*Pediatric Neurology*" appeared. The journal has grown remarkably, receives many contributions from all over the world and has a high impact factor. Ken continued as Editor-in-Chief until 2012 and in 2013, he turned over this position to Steve Roach who has maintained the high standard of the journal, with a steadily rising impact factor.

The word 'retirement' was not in Ken's lexicon. He continued to attend CNS meetings, maintained close contacts with leaders of the CNS and was Editor and co-author of chapters in the 2017 edition of the reference text that he began

More than any other modern-day neurologist, Kenneth Swaiman has led the way in establishing the field of child neurology. He has served as the most lustrous academic beacon in the CNS. To hundreds of academicians, he has shown the way in patient care, teaching, research and scholarship and, in that way, has bettered the lives of tens of thousands of children with neurological disorders. No one has come close to Ken in establishing the academic origins and growth of Child Neurology. Through his years of tireless work and productivity, Ken has consistently exuded great warmth, a dazzling smile, and an infectious laugh. He has inspired countless others to reach for lofty goals, inspired by Ken's many legacies.

Ken and his wife of 35 years, pediatric neurologist Phyllis Sher, alternated their residences between Minneapolis and Tucson. Phyllis was a past member of the Executive Committee of the CNS, taught at the University of Miami Medical School, the University of Minnesota Medical School and did research at the NIH. While in Arizona, she taught at the University of Arizona School of Medicine, returned to her artistic background and is an accomplished painter. Ken received unwavering support from Phyllis during his last of several illnesses, sharing their deep love as Ken reflected on his life, a life so well lived. In addition to Phyllis, Ken is survived by children, Lisa Swaiman (Jim Grossman), Jerrold Swaiman, Barbara Swaiman (Mark Franklin), and Dana Hoberman (Bruce); and grandchildren, Isaac Swaiman, Sarah Grossman, Ethan Swaiman, Danielle Swaiman, Sawyer Franklin, Ryan Franklin, Jordan Hoberman and Benji Hoberman; and great grandson Everett Swaiman.

Submitted by longtime colleagues and friends,
Stephen Ashwal, MD
N. Paul Rosman, MD



Ken with his wife of 35-years, Phyllis Sher, who first presented work at a CNS Annual Meeting in 1973, was elected to serve on the CNS Executive Committee (1993-95), and has become an accomplished artist in retirement.

CONNECTING WITH COLLEAGUES

Letter from the Editor



Lessons Learned From a Voice Not Heard

Daniel J. Bonthius, MD, PhD, *CNS Connections* Editor

It was no accident that child neurologists chose the name Connections for their newsletter. And so, with Dr. Swaiman's death to prod and awaken me, I urge my colleagues – and especially newcomers to the field – to reach out to each other and to the people you admire, to form the connections that prompt us to grow as physicians, scientists, and human beings. The time is now, before it's too late.

Unlike most of the readers and contributors to this newsletter, I never met Ken Swaiman, and I am a lesser man for it. It seems the height of irony that I, the editor of a child neurology newsletter called “Connections,” would never have made a personal connection with the one individual who, more than anyone else, has led my own field of child neurology. And yet, sadly, it's true. I never met the man.

It's not that I lacked the opportunity. I often saw Dr. Swaiman at Child Neurology Society meetings, walking between meeting rooms, drinking coffee, or standing at posters. I could have introduced myself.

It's not that I didn't recognize him. Having served as President of every professional organization in child neurology and been the winner of their most prestigious awards, Ken Swaiman has been the face of child neurology for the past 50 years. How could anyone in the field not recognize him?

It's not that I didn't hold him in awe. Author and editor of the most influential textbook in the field, founder of our society, our foundation, and one of our most important journals, Ken Swaiman has been the guiding light of our profession. His name is all over my bookshelves, my

references, and my internal list of the “giants” in child neurology.

And yet, I never met him. I never introduced myself to Dr. Swaiman because I assumed that the great man would probably not be interested in me. I was a generation younger than him; I was not famous, and I didn’t want to be a pest. I know now, how wrong that reasoning was. I’ve learned from the people who knew him best that he was not just a visionary leader who mingled with the high and mighty, but that he was a great teacher who loved meeting students and other “unknowns” and was dedicated to their educations and futures in child neurology. I’ve further learned that he was a friendly person who laughed often and exuded warmth and wisdom.

I should have introduced myself. I should have told him about my life-long fascination with the brain, my research in viral infections, and my most perplexing patients. I know now that he would have eaten it up. He would have listened intently and offered sage advice, with wisdom and humor, to me, as he did to so many others.

Unfortunately, I’ve learned this too late. Dr. Swaiman is now gone and so, too, is my chance to grow from his presence.

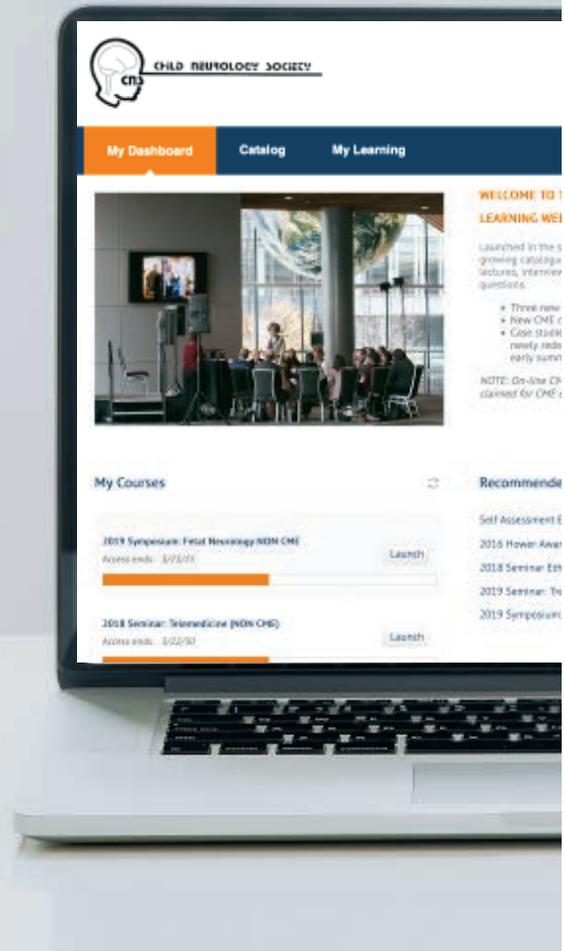
And yet, all is not lost. I’ve learned from this and can teach the lesson to others. The death of Dr. Swaiman has taught me the urgency of interacting with our mentors and our seniors while they’re here – learning from their experiences and growing from their wisdom.

Child neurologists are nice people. They like to talk. They like to learn. And they like to *connect*. It was no accident that child neurologists chose the name *Connections* for their newsletter. And so, with Dr. Swaiman’s death to prod and awaken me, I urge my colleagues – and especially newcomers to the field – to reach out to each other and to the people you admire, to form the connections that prompt us to grow as physicians, scientists, and human beings. The time is now, before it’s too late.

Check out the CNS Lifelong Learning website...

over 35 CME and
non-CME courses and
3 Self-Assessment Exams

*Access by clicking
Lifelong Learning button
on main CNS website*





2020 Bernard Sachs Award

Joseph G. Gleeson, MD

Profile by Doris Trauner, MD



Joseph Gerard Gleeson was born in Canoga Park, California, and grew up in Woodland Hills, 22 miles east of Los Angeles in the San Fernando Valley. He was the oldest of four boys, so he quickly became accustomed to orderly chaos, a perfect training ground for his future endeavors. He attended an all-male Catholic high school in Encino, CA, where he enjoyed participating in high school plays and musicals. Not surprisingly, he usually had the lead role in those performances. After high school, Dr. Gleeson attended UC San Diego for his undergraduate education where he majored in chemistry. He spent a brief period doing a research elective in the laboratory of Dr. Doris Trauner, participating in a project on mitochondrial activity in an animal model of Reye syndrome. After graduation, he moved on to the University of Chicago Pritzker School of Medicine for his medical degree. During that time he worked with Dr. Peter Huttenlocher, one of the leaders in child neurology, and this experience solidified his interest in entering that field. It was during this time that, while filling out forms required for a research elective, he met the love of his life, Marijo Logeman. That research elective may have had the most lasting impact of any he did; they've been together ever since, and have been married for 28 years.

Following medical school, Dr. Gleeson moved further east, to Boston, where he fulfilled a dream of working with one of the people he most admired, Dr. Joseph Volpe. He completed his pediatrics and child neurology training at Boston Children's Hospital, followed by a research fellowship at Harvard with Dr. Christopher Walsh. During this time, his research interest in the genetic underpinnings of neurodevelopmental disorders blossomed. His initial work focused on X-linked lissencephaly, and he identified the *doublecortin (DCX)* gene that was mutated in X-linked lissencephaly and double cortex syndrome, defined genotype-phenotype correlations, and provided a molecular diagnosis for patients. By studying DCX function, he defined the concept of nuclear-centrosome coupling in neuronal migration. He also demonstrated that DCX is a marker for neural stem cells, now a widely used marker.

Dr. Gleeson was recruited to UC San Diego after completion of his fellowship. He set up a neurogenetics lab and developed productive relationships with clinicians and researchers around the world. In order to study rare genetic disorders, he traveled to the Middle East, where in some countries and communities there is a higher rate of consanguinity, and recruited and examined entire families with genetic disorders. He focused his research on identifying new causes for recessive pediatric brain disease, by traveling extensively in the Middle East for patient evaluations and ascertainment. In doing so, he identified over half of the now 20+ genes mutated

in Joubert syndrome (JS), and linked JS to the ciliopathies. He identified defects in ciliary function in patient cells, and performed the first cell-based screen to identify modulators of ciliogenesis, which defined actin-regulatory pathways. His recent work has focused on recent work is focused on identifying genes for neurodevelopmental and neurodegenerative disorders using a combination of recessive and de novo somatic mosaicism detection, to define potentially treatable conditions. He identified several mutations as potentially treatable neurodegenerative diseases. His current work includes the use of exome sequencing to improve ability to diagnose and treat disease.

Dr. Gleeson quickly rose through the ranks to Professor. He has remained at UC San Diego for his entire career, with the exception of a brief detour to the east coast, where he was the Hess Professor in the Laboratory for Brain Diseases at the Rockefeller Institute, and Director of Mendelian Genetics at the New York Genome Center. He is currently the Rady Professor of Neurosciences and Pediatrics at UC San Diego, as well as the Director of Neuroscience at the Rady Children's Institute of Genomic Medicine at Rady Children's Hospital San Diego. During his career, he has amassed numerous accolades and research successes. He has enjoyed continuous grant funding for his research for many years. He has published over 200 research papers in prestigious journals. Among his many awards, he received the Young Investigator Award from the Child Neurology Society in 1998, the Klingenstein Award in the Neurosciences in 2001, the Burroughs Wellcome Fund Award in Translational Research in 2005, and was elected to the National Academy of Medicine in 2013. For many years he was a Howard Hughes Investigator.

Now, in 2020, Dr. Gleeson is the recipient of the Bernard Sachs Award of the Child Neurology Society. This award honors someone of international status who has done leading research in neuroscience with relevance to the care of children with neurological disorders. This describes Dr. Gleeson perfectly. His outstanding research has led to new understanding about neurogenetic disorders, and has opened the door to potential new treatments for previously untreatable conditions. He is an open and generous collaborator and colleague as well, encouraging people to join his research efforts and to participate in publishing their mutual work. He has amassed a very large number of collaborators for these reasons, as well as for the excitement that his research engenders in others. He genuinely cares about the patients with whom he

interacts. He has always been very excited to see the many patients around the world first hand with the various conditions he was studying, and he has also always been very humbled by the difficulties the children and their parents experienced with the poor outcomes from these severe conditions. Those families have been a driving force in his tireless efforts to find new genes, new mechanisms, and potentially new treatments for those devastating conditions. Joe truly embodies the values and accomplishments underlying the Sachs award.

Teaching has been an important facet of Dr. Gleeson's career as well. He has trained a large number of graduate students, medical students and post-doctoral research fellows, many of whom have gone on to academic careers of their own with independent grant funding. He is generous with his time and it is clear that he believes in preparing dedicated people to become the next generation of research investigators.

Along the way there has been another major driving force in Dr. Gleeson's life – his family. Joe and Marijo have been married for 28 years; Marijo has a master's degree in Public Health and works with early-stage pharmaceutical companies. They have three children: Sophia, age 14, a freshman in high school; Jeremy, age 20, in his junior year at Purdue University studying computer science; and Matt, age 23, a graduate from Washington University with a degree in engineering and now at University College, London, working on a Master's degree in machine learning. Although the boys are now away at school, they return often, and Dr. Gleeson loves spending time with his family. They enjoy walking, hiking, and traveling together. He also enjoys sailing and running, and has run in a large number of marathons over the past 16 years. Most recently, he began taking guitar lessons, and no doubt will master that craft as well.

Joe Gleeson is, in short, an extremely gifted, dedicated, and prolific physician scientist who has made and continues to make seminal discoveries that will one day lead to new treatments for devastating neurodevelopmental conditions. He is also a loving husband and father, a thoughtful and kind friend, a caring mentor, and an eager, generous and open colleague and collaborator. Perhaps one year he will serenade us with a guitar medley at a post-Covid (one can only hope!) CNS Meeting. Meanwhile we can expect a superb Sachs lecture from a colleague most deserving of this award.



2020 Hower Award

Kenneth J. Mack MD, PhD

Profile by John B. Bodensteiner, MD



This year's Hower Award recipient is Kenneth Mack, MD, PhD. Currently Dr. Mack is the Chief of the Division of Child and Adolescent Neurology in the Department of Neurology at the Mayo Clinic in Rochester, MN and Professor of Neurology and Pediatrics at the Mayo Clinic College of Medicine and Science. His numerous contributions to the Child Neurology Society and the discipline of child neurology throughout the United States and world-wide make him an outstanding choice for the Hower in this or any other year.

Born in Chicago as the youngest of four children, Ken was influenced by his older sister who became a nurse. He admits that his interest in medicine was sparked by her apparent enjoyment of her work. Dr. Mack left Chicago at age 18 years to enter the University of Illinois at Urbana-Champaign, from which he graduated with a BS with honors in Biology in 1978, and subsequently an MD and PhD in 1984. During this time he came under the influence of Dr. William Greenbaugh, who impressed the putative researcher with his obvious love for research and the enjoyment of the effort to find things out. While Dr. Mack was not a noteworthy athlete while in school, he was a member of the "Satanic Viruses" basketball club team composed of members of the research lab in which he worked while in Champaign-Urbana.

Dr. Mack did his graduate training at Washington University in St. Louis in both Pediatrics and Neurology. The list of noteworthy faculty members at "Wash U" at the time was impressive, but Dr. Mack recalls that Dr. Arthur Prensky made the biggest impression, noting that "Art was the one everybody took their hardest cases to for his opinion." Dr. Joseph Volpe and Dr. Edwin Dodson also made lasting impressions on Dr. Mack as a resident.

Dr. Mack joined the faculty at the University of Wisconsin in 1990 as an assistant professor of Neurology, Pediatrics, and Physiology. He was promoted to associate professor in Madison and it was during this time that had the opportunity to work with Drs. Ray Chun and Rob Rust, who became life-long friends and both of whom were very influential members of the Child Neurology community for many years. It was in the early days of his career that Dr. Mack was recognized as a promising clinician and investigator with the bestowing of the Young Investigator Award of the Child Neurology Society in 1991. His young investigator award research was related to the induction of transcription factors in cerebral cortex. While in Madison he investigated synaptic plasticity and transcription factors. It is worth noting that several of the first recipients of the Young Investigator Award (renamed the Philip R. Dodge Young Investigator Award in 2004) are now being recognized for their

contributions to the Child Neurology community over the span of a career. As he became more and more involved in clinical work Dr. Mack drifted toward clinical research and away from the laboratory.

The Mayo Clinic was fortunate enough to acquire the talents of Dr. Mack in 2001 and he has remained in the Division of Child and Adolescent Neurology since, serving in several capacities including director of the D. Sanford Pediatric Center (2006-2011), Director of the Clinical Practice of the Division and Chief of the Division (2017). While at Mayo, his interest and expertise in the management of difficult headache problems and movement disorders and tics has resulted in a well-deserved reputation for thoughtful and considerate care of his patients, and his opinion and advice is sought by many patients, colleagues and referring physicians. His great clinical skills plus his temperate and mellow approach to even the most trying clinical situation has made him a favorite of the residents and students and their appreciation has been shown by the receipt of three "Excellence in Teaching Awards"; in 2014 he was honored by Mayo as the "Teacher of the Year."

Dr. Mack has been a member of the Child Neurology Society since 1989, serving the organization in many capacities. He was President from 2015-2017, and before that served on the Awards Committee, the Electronic Communications Committee, the Long-Range Planning Committee, the Research Committee and the Executive Committee. Following his presidency, he chaired the Nominating Committee and represents the CNS on the Annals of Neurology Oversight Committee. He also was a key contributor, on short notice, to the production of the first Self-Assessment Examinations produced by and for the Child Neurology Society. It is fair to say that the frequency with which he has been appointed to the various committees of the Society is testament to the value placed on his contributions to those endeavors.

Dr. Mack recognized, early on, the importance of growing and supporting the development of child neurology as a specialty world-wide. He joined the International Child Neurology Association (ICNA) in 2002 and quickly became a valued contributing member, serving on the Executive Board of the organization from 2002-2018, as Secretary General from 2004-2010, and as Chair of the Education Committee from 2010-2014. He has encouraged many colleagues, residents and students to participate in ICNA congresses and become members of this important organization. Dr. Mack has also been a long-time member and contributor to the Society for Neuroscience (1979-2004), the American Academy of Neurology and the International Headache Society, as well as the Movement Disorder Society and the Professors of Child Neurology. He has many published papers, abstracts, reviews, commentaries, editorials and chapters.

On a more personal level, Ken and his wife Pat are the happy parents of three children and three grandchildren. Remarking that there is "scarcely anything more fun than playing with grandchildren" he anticipates, once the pandemic eases, spending a great deal of time doing just that. Dr. Mack is a warm, friendly, unfailingly upbeat man with a tremendous capacity to stop what he is doing to listen to a question or supply information without appearing to be annoyed by the interruption. He is forever willing to "give the benefit of the doubt" to everybody he encounters and this includes the many difficult patients, as well as the colleagues, residents and students he deals with on a daily basis. Although there are many deserving Child Neurologists among us, I can think of none more deserving of the Hower Award than Dr. Ken Mack.



2020 Philip R. Dodge Young Investigator Award Hsiao-Tuan Chao, MD, PhD

Profile by Gary D. Clark, MD



This year's Philip R. Dodge Young Investigator Award recipient is Hsiao-Tuan Chao, MD, PhD of Baylor College of Medicine (BCM). Tuan is an immensely talented individual who will be a leader in child neurology and in basic neuroscience of neurodevelopmental disorders. Her research has the potential to broaden our understanding of neural circuit development and function, with the long-term goal of advancing therapeutic strategies.

Dr. Chao, a native of Austin, Texas, was born to an engineer father (with a secret desire to be a neuroscientist) and a special education teacher mother. She spent much of her middle and high school years volunteering at her mother's school, Rosedale, a beloved Austin Independent School District school for children with special needs. One of her mother's favorite students was a young lady with constant hand wringing, who in retrospect probably had Rett Syndrome, a disorder that Dr. Chao would study for her PhD thesis. As student volunteers, Dr. Chao and her brother helped with daily care, therapies, and educational needs of her mother's charges, while her father would make and donate equipment for therapy. Her brother serves as a career U.S. military officer and her mother retired from special education. Unfortunately, Dr. Chao lost her father early in 2020, but she continues to carry on his legacy. Her parents instilled in her a love of learning, a lifelong curiosity, and a service to others that comprise the foundation for an early promising career.

After completing her high school International Baccalaureate Diploma Program with honors in chemistry, physics and biology (top 1% of class, Presidential Award for Educational Excellence), she matriculated at the University of Texas at Austin (UT Austin) as a Plan II Honor's College and Biochemistry double-major. With over 70 advanced credit hours, she entered as a sophomore and finished this challenging double major in only 3 years. It was at UT Austin where she first studied the mechanisms of fruit fly neurotransmitter release in the laboratory of Bing Zhang, PhD and met her future husband, Mingshan Xue, PhD, a neuroscientist at BCM.

Dr. Chao graduated *summa cum laude* with dual Bachelor of Arts and Bachelor of Science degrees from UT Austin and matriculated into BCM's Medical Scientist Training Program as a McNair MSTP Scholar with The Robert and Janice McNair Foundation. She completed her PhD in Neuroscience with Christian Rosenmund, PhD and Huda Zoghbi, MD, where she made significant contributions to our understanding of excitatory and inhibitory neuronal mechanisms of disease in Rett and *MECP2*-duplication syndromes. Their research was among the first to uncover critical roles for MeCP2 in fine-tuning excitatory synaptic connections and regulating inhibitory neuronal signaling. The impacts of these discoveries are reflected by the

thirteen publications resulting from Dr. Chao's doctoral studies, including landmark first author publications in journals such as *Nature* and *Neuron*. The discovery linking disrupted inhibitory GABAergic signaling to Rett syndrome and to autism made a broad impact, and was recognized as one of the top 10 autism research findings of 2010 by Autism Speaks. In 2012, she graduated with her MD and PhD degrees and was selected to present the commencement address for the graduate school of biomedical sciences.

Dr. Chao completed her Child Neurology residency training in the Basic Neuroscience pathway at BCM and Texas Children's Hospital (TCH) in 2017. During her residency training, she served as Chief Resident from 2015-2016, and in 2016, she joined the laboratory of Hugo J. Bellen, DVM, PhD at the Jan and Dan Duncan Neurological Research Institute (NRI) to pursue post-doctoral training in neurogenetics and fruit fly neurobiology. She was instrumental in an international collaborative effort with researchers in the Undiagnosed Diseases Network, BCM, and the NRI that co-discovered the association between genetic variations in *EBF3* and a neurodevelopmental disorder manifesting in variable cognition, speech impediments, poor muscle tone, impaired coordination and autistic behaviors. The discovery was published in the *American Journal of Human Genetics* and the disorder is now known as the Hypotonia, Ataxia and Delayed Development (HADD) syndrome. This generated much excitement in the field as *EBF3* was previously known to be an important mediator of inhibitory neuron development, further supporting the emerging theme of disrupted inhibitory neuronal signaling as a shared pathogenic mechanism for many neurodevelopmental disorders. To further expand our understanding of HADD syndrome, she established a multidisciplinary HADD syndrome clinic at Texas Children's Hospital (TCH) that integrates the strengths of human genetics and neuroscience research at BCM. For this work, she received the Child Neurology Society Outstanding

Junior Member Award, STAT News Wunderkind award, and post-doctoral research training fellowships from the Child Neurologist Career Development Program (CNCDP)-K12 and the American Academy of Neurology in 2017.

In 2017, while still a medical resident, Hurricane Harvey flooded her single-story house. While the floodwater rapidly rose, the unsinkable Dr. Chao, from her attic, uploaded her application for the prestigious NIH Director's Early Independence Award (DP5), an R01-equivalent grant awarded to outstanding young scientists to accelerate their research independence. The DP5 award enabled her early transition to research independence, which was further supported by the Elterman PERF grant from the Child Neurology Foundation, and the Burroughs Wellcome Fund Career Award for Medical Scientists. In 2018, Dr. Chao established her independent research laboratory at the NRI as an Assistant Professor with joint primary appointments in the departments of Pediatrics, Division of Neurology and Developmental Neuroscience, and Molecular and Human Genetics at BCM, and was named a McNair Scholar. Her primary research focus is to elucidate the genetic and neural mechanisms underlying neurodevelopmental disorders such as autism, intellectual disability, and epilepsy through integrating human genetics with mechanistic studies of single gene disorders in fruit flies and mice.

Dr. Chao is an exemplary child neurologist, a rigorous scholar, and a remarkable physician-scientist. She is committed to advancing the growth of physician-scientists in child neurology. She encompasses the ideal qualities of a Philip R. Dodge Young Investigator, and her proposed research has tremendous potential to transform both our mechanistic understanding of neurodevelopmental disorders and our field.



2020 Outstanding Junior Member Award



Natalie K. Katz, MD, PhD
Children's Mercy Hospital & Clinics/University of Kansas Medical Center
Kansas City, Missouri



Travis Larsh, MD
Children's Hospital Cleveland Clinic
Cleveland, Ohio



Kshama Ojha, MD
University of Louisville
Louisville, Kentucky



Sonal Sharma, MD
Children's Mercy Hospital & Clinics/University of Kansas Medical Center
Kansas City, Missouri

2020 M. Richard Koenigsberger Scholarship Award



Katelyn Bricker, MD, MS
North Carolina Memorial Hospital/University of North Carolina
Chapel Hill, North Carolina

Junior Members

Register by **October 12** to attend four dedicated Junior Member Seminars offered Week 1 of the CNS-ICNA Meeting:

1. **Becoming a Physician Scientist in Pediatric Neurology**
Wednesday, October 14
2. **Nurturing the Global Pipeline of Academic Child Neurologists**
Thursday, October 15
3. **International Clinical Research Consortia in Child Neurology: Get Involved!**
Friday, October 16
4. **Choosing your Career Track – Academic, Private Practice, and NGOs**
Friday, October 16

TOGETHER • APART virtual2020

OCTOBER 12-23, 2020



16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting

Sharing Knowledge • Sowing Friendships • Spreading Hope

TOGETHER • APART virtual2020



16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting

Want CME Credit?

Complete CME survey
online immediately
AFTER THE MEETING:
October 23-November 2

Sharing Knowledge • Sowing Friendships • Spreading Hope

The 2020 CNS Scientific Program

The CNS Scientific Program is designed by and is primarily intended for child neurologists and professionals in other fields of study related to neurologic and developmental disorders in children and adolescents. "As a result of attending this meeting the physician will be better able to care for children with neurological disease through an understanding of recent advances in neuroscience, neuro-diagnostics and therapeutics relevant to child neurology."

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 and Child Neurology Society. The Minnesota Medical Association (MMA) is accredited by the ACCME to provide continuing medical education for physicians.

CME Statement

The Minnesota Medical Association designates this live activity for a maximum of 100.25 AMA PRA Category 1 Credit(s)[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



MINNESOTA
MEDICAL
ASSOCIATION



16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting



YOU ARE INVITED!

- 22 • Jo Wilmshurst, MB, BS, MD; President of the ICNA
- 23 • Phillip L. Pearl, MD; President, Child Neurology Society



10 THINGS

- 24 • To Know Before You Go (to your computer)



SCHEDULE

- 30 • Monday, October 12
- 31 • Tuesday, October 13
- 34 • Wednesday, October 14
- 38 • Thursday, October 15
- 41 • Friday, October 16
- 48 • Monday, October 19
- 50 • Tuesday, October 20
- 58 • Wednesday, October 21
- 66 • Thursday, October 22
- 74 • Friday, October 23



SCHEDULE AT A GLANCE

- 79 •



REGISTRATION

- 85 • Information and Fees



INDUSTRY-SPONSORED SEMINARS & PRODUCT THEATERS

- 86 •



SPONSOR/EXHIBITORS

- 89 •

TOGETHER • APART
virtual2020

OCTOBER 12-23, 2020

You Are Invited!



On behalf of the International Child Neurology Association, it is my great pleasure to welcome you to the 16th International Child Neurology Congress being held October 12-23, 2020 in collaboration with the Child Neurology Society. Due to the COVID-19 pandemic, this will be the first virtual ICNC. Our congress theme is "Sharing Knowledge, Sowing Friendships, Spreading Hope". The additional theme Together•Apart Virtual 2020 is the perfect concept for this congress. The ICNCs have truly set the stage as the key forum which provides the very latest and most relevant updates on child neurologic disorders from a global perspective. Speakers from across the six major geographic regions will present at the congress. The scientific program will feature internationally recognized experts, including themes of "Developmental and Epileptic Encephalopathies: What we know and what we do not know" (Nicola Specchio/Pritchard Award); "Update in Pediatric Neurometabolic Disorders 2020" (Lance Rodan/Linda de Meirleir Neurometabolic Award); "The Global Burden of Paediatric Neurological Disorders" (Charles Newton/Frank Ford Award) and "Dietary Therapies for Epilepsy in Low Resource Settings: Challenges and Success" (Suvasini Sharma/Sheila Wallace Award).

We are keen to hear from members of the ICNA and CNS community and hope you successfully submitted your proposals. Following the successful framework of previous congresses, the globally representative scientific committee, chaired by Prof Jonathan Mink, have selected the most innovative proposals to ensure a rich and diverse program guaranteeing that all delegates will leave inspired and with knowledge gained.

There will be opportunity for the newly established Council of the Future Leaders of ICNA (FLICNA), comprised of outstanding, regionally nominated senior child neurology residents, fellows and junior faculty to meet virtually and discuss strategy, as well as how the ICNA can support junior child neurologists. To promote access from clinicians based in low and low-middle income countries the registration rate has been significantly reduced. Based on popular demand there will be a strong educational program inclusive of master classes and teaching courses.

There will also be an opportunity for different child neurology subspecialty special interest groups to meet virtually. The networking opportunities building international collaborations is a key theme for the ICNA and the 2020 ICNC-CNS congress will be an ideal opportunity to pursue this. The congress promotes connecting clinicians involved in the phenotyping of unique clinical populations afflicted with specific neurological diseases with researchers in state-of-the-art research laboratories.

Please join us for a scientifically stimulating ICNC2020 program. We look forward to meeting virtually new colleagues and engaging with old friends. Following on from the COVID-19 pandemic, I hope that we can learn from the experience and identify new and positive ways to support each other and promote the health of children with neurologic disease.

On behalf of the ICNA board
Jo Wilmshurst, MB, BS, MD
President of the ICNA



CHILD NEUROLOGY SOCIETY

My fellow CNS and ICNA members, this Welcome Letter has undergone too many versions to anticipate anything at all but an unconventional meeting. But we will have a great meeting; Roger Larson guarantees it! Seriously, he and the CNS National Office are working so hard, with a great vendor and platform, to give us a superb conference, and in concert with the international crowd to boot. I am so pleased to co-host this conference with Jo Wilmshurst from ICNA and Jon Mink as chair of the Scientific Planning Committee. So many have worked so hard to coordinate these efforts; please plan to attend the sessions, which will now be spread out over two weeks, lest anyone has to sit in front of a screen and concentrate in aliquots as you would by sitting in a beautiful conference center in sunny San Diego!

This meeting has been years in the planning, but in Churchillian fashion, the best-laid plans of mice and men often go awry. In any case, we will still feature plenty of networking opportunities (Networking Lounges, Happy Hours and roundtable discussions), the Pellock Epilepsy Course for graduating child neurology residents, a Neurobiology of Disease symposium on head injury, and a scientific program replete with plenary award lectures, symposia, platform & poster presentations, Meet-the-Expert sessions, and workshops. The symposia span neuroimmunology, epilepsy, stroke, neuro-oncology, neuro-infectious disease, neuromuscular, movement disorders, neonatal neurology, behavioral neurology, neurogenetic-metabolic, neonatal neurology, neuro-ophthalmology, and more. There is something for everyone, including a combination of practical knowledge and research advances, along with international representation that has been carefully integrated into the program. The organization of the meeting has been meticulous, but we are very busy trying to have all the material pre-recorded in time for uniformly high technical quality.

A highlight coming at the end of Week 1 will be the annual Child Neurology Foundation's symposium, this year focusing on the diagnostic odyssey so familiar to us and our patients in the process of genetic diagnosis, symposia. We will also offer a very special series of evening programs in both Week 1 and Week 2. I so much enjoy experiencing other cultures when attending international conferences. Please join me in our novel course on AMERICAN CREATIVITY, INGENUITY, and DIVERSITY. We are going to demonstrate how the diversity that makes up American society has led to magnificent creativity and ingenuity in the arts, and I will be joined by my colleague and local bard, David Urion MD, past President of the Professors of Child Neurology, in an exploration of the literary works that help illustrate this aspect of American humanities. I will also be joined by colleagues from the Berklee School of Music here in Boston, drawing upon the diversity and expertise of their faculty, so that I will have a chance to play the music presented in the program with some of the greatest performing musicians in the world today. I'm delighted to share the joy of watching and listening to this incredible combo perform from your front row seat in front of the computer screen!

Phillip L. Pearl, MD
President, Child Neurology Society
William G. Lennox Chair, Boston Children's Hospital
Professor of Neurology, Harvard Medical School
Institute of Music and Health, Berklee College of Music

10 • THINGS

To Know Before You Go

(TO YOUR COMPUTER)

1 REGISTRATION FEES: What's Included

Delegates paying registration fees (listed p55) will be eligible for:

- All Open CME courses listed in this prospectus
 - Neurobiology of Disease in Children (NDC): Traumatic Brain Injury requires payment of an additional course fee
- Special Interest Group meetings: Week 1; dates & times to be listed in late September
- Industry-Sponsored CME seminars and/or product theaters Week 1 & 2; dates & times to be listed in late September
- Up to 100.25 CME credits. To earn credit, delegate must attend the full session & click link at the end of the session to answer a CME question. CME credits will be totaled and a certificate issued beginning December
 - Participation certificates (not good for validating CME credits earned) will be available immediately upon completing a course.
 - Because sessions are available On-Demand through March 2021, delegates paying registration fee may be able to earn needed CME credits for two years (2020 and 2021; # of credits will be based on when courses are completed).
 - *Special thanks to the ABPN for a generous grant making it possible for non-CNS/ICNA members certified neurologists to attend at member rates.*

2 JUNIOR MEMBERS

Four Junior Member seminars have been scheduled in Week 1 for CNS & ICNA Junior Members and medical students to attend.

3 LIVE SESSIONS (OCTOBER 12-23, 2020)

All sessions listed will be shown "live" once. Each session will begin **promptly** at the scheduled time, serially showing pre-recorded lectures. A live Question and Answer period will follow each set of pre-recorded lectures with Session Chairs and available presenters providing audible response to questions selected by a moderator from among those submitted in a side text/chatbox during the lectures.

4 ON DEMAND SESSIONS (NOVEMBER 2020 - MARCH 2021)

All live sessions will be recorded and most will be offered On Demand (24/7) via the virtual meeting platform November 15, 2020 thru March 31, 2021.

To Access Sessions On Demand thru March 2021, You must be registered by October 23



**16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting**

5 POSTERS & VIDEO-POSTERS

More than 550 posters (pdf files) and 100 video poster presentations (PPT presentations) will be available On Demand (24/7) during both Week 1 and Week 2, and On Demand through March 2021.

Posters & Video-Posters will be available beginning Thursday, October 15.

7 INDUSTRY-SPONSORED CME SEMINARS AND/OR PRODUCT THEATERS

These will be listed along with all ICNA-CNS CME session in the “Sessions” listings of the virtual meeting platform. A complete listing also appears on the page.

NOTE: Industry-sponsored sessions were designed and are staged in complete independence of the CNS-ICNA meeting. A fee is paid to CNS & ICNA to link to external websites on which these sessions are hosted; no endorsement of products, research or positions is implied by provision of this paid service.

6 SPONSORS & EXHIBITORS

This meeting would not be possible – this year especially – without the financial support and participation of our corporate and non-profit partners. Show your appreciation by visiting Sponsor & Exhibitor microsites (booths) available during both Week 1 and Week 2, and On Demand thru December 31, 2020.

Sponsors & Exhibitors will be available beginning Wednesday, October 14.

8 NETWORKING

- **Special Interest Group Meetings.** Nine 90-minute Special Interest Group (SIG) Meetings are scheduled during Week 1. Each may be followed by multiple pre-scheduled or spontaneously scheduled roundtable meetings involving up to 6 delegates at a time (signing up for wait list is an option).
- **Networking Lounge & Roundtables** Roundtables enabling up to 6 people to gather at a time to discuss anything and everything!
- **“Hello World!”** When first logging in, delegates will be asked to
 - Check up to 7 “Areas of Interest” (tags) to help AI link you to others sharing your interests
 - Introduce yourself with uploaded photo, brief bio, and brief video greeting



American Creativity, Ingenuity, and Diversity

Thanks to our Gold Level Sponsors for supporting the joint international meeting and this special programming.

I am pleased to announce the development of a special educational/entertainment program, *American Creativity, Ingenuity, and Diversity*, offered to our colleagues from around the world by the CNS as the host association and country for this year's International Child Neurology Congress. This program was originally created earlier this year in response to the pandemic and social unrest

in our society, as a means to reflect on how diversity has enriched our culture and created great American art forms. The curriculum is formatted as presentations in words and music, and is done collaboratively between David Urion MD, the Charles Barlow Chair for Neurology Education at Boston Children's Hospital (and local bard at Harvard Medical School) and myself. This was initiated

during weekly town hall meetings in our neurology department, during which we found that all department members, from the medical and nursing staff to technical, administrative, and others gravitated and found meaning and solace. If you have the opportunity to partake of the program, you will note that it is organized into ten segments, each described briefly below. We invite you to watch one segment each night - whenever and wherever in the world it is nighttime for you - leading off your virtual "Happy Hour" networking with colleagues old and new. Those of you who still have a full week blocked off from when we originally hoped and planned to be together in San Diego may choose instead to binge watch the entire series Netflix-style. Either way, I hope you enjoy it.

Available On Demand 24/7 during and after the CNS-ICNA Meeting.



PROGRAM OVERVIEW:

- 1. Literary reading:** *Weather*, by Claudia Rankine – commissioned by NY Times Book Review just after the killing of George Floyd in Minneapolis.

Musical selection: *How High the Moon*, composed by Morgan Lewis (music) and Nancy Hamilton (lyrics), and recorded by Benny Goodman (clarinetist) in 1940, rewritten as *Ornithology* by Master Alto Saxophonist Charlie Parker (“Father of Bebop”) in 1946.

- 2. Literary reading:** *Allegiance*, by William Stafford (poet laureate, conscientious objector) and *Those Winter Sundays* by Robert Hayden (protégé of Auden, African American US Poet Laureate).

Musical selection: American Song Book Standard *It Could Happen to You* (Jimmy van Heusen 1943) rewritten by African American Bebop Tenor Saxophonist Dexter Gordon as *Fried Bananas* (1969)

- 3. Literary reading:** *Shoulders*, by Naomi Shihab Nye (Arab-American poet who writes of connections across cultures)

Musical selection: *What Is This Thing Called Love?* (Cole Porter 1929) rewritten by African American Pianist, Composer, and Arranger Tadd Dameron as *Hot House* 1945.

- 4. Literary reading:** Excerpt from *The Plague*, by Albert Camus, and *WE THE PEOPLE*, poem by Maya Angelou that was placed on the spacecraft Voyager at the suggestion of Carl Sagan

Musical selection: *Les feuilles mortes* (1945 Hungarian-French composer Joseph Kosma) rewritten as *Autumn Leaves*, as recorded by American trumpeter Miles Davis on *Blues and Ballad* album, featured soloist on *Kind of Blue* (#1 selling jazz album in the world) 1959

- 5. Literary reading:** *Psalm*, by Wislawa Szymborska, Nobel laureate (leaky boundaries; ‘Only what is human can be truly foreign’)

Musical selection: *A Night in Tunisia* (1942) John Birks “Dizzy” Gillespie (“Godfather of Latin Jazz”)

- 6. Literary reading:** *To be of Use* by Marge Piercy

Musical selection: *Nostalgia in Times Square* 1959, African American Jazz Master on Creativity, bassist Charles Mingus, dies of ALS 1979, defined American music as: “what we play, that belongs with the people who have a feeling of freedom and like to play together without discrimination.”

- 7.** “Es war beschreibt”, David Urión story of a home visit

Musical selection: *My Favorite Things* from *The Sound of Music* (1959), the last work of the prodigious Broadway writing duo Richard Rodgers and Oscar Hammerstein, as interpreted in the iconic recording of saxophonist John Coltrane (1961)

- 8. Literary reading:** Excerpt from “Sonny’s Blues”, short story by James Baldwin (1959), African American poet writing of life in Harlem

Musical selection: *When Sunny Gets Blue* (1959)

- 9. Literary reading:** *The Dakini Speaks*, by Jennifer Welwood (on impermanence)

Musical selection: *Waltz for Debby* (1956) Bill Evans, giant American pianist (& personal favorite)

- 10.** Band Finale: *Caravan* (Edward Kennedy “Duke” Ellington 1936), composer of the *Far East Suite* (note the alternating African safari sound/rhythms with straight ahead American jazz using blues form of sequential perfect 4ths)

With pleasure, let me share the members of this CNS Band Event, all of whom have toured internationally with the leading active jazz musicians in the world today.

Jacques Bart-Schwarz – tenor sax, Professor of Music, Reeds Department, Berklee College of Music, native of Guadeloupe, blends Caribbean music with jazz

Yoron Israel – drums, Chair and Professor, Percussion Department, Berklee College of Music, #3 album on national jazz charts 2004

Dan Fox – bass, Arlington-Boston Jazz Festival, Boston Jazz Ambassador to Cuba, alumnus, Berklee College of Music

Fun!
Fun!
Fun!



10

PLENARY/AWARD LECTURES

TUESDAY, OCTOBER 20



6:00 AM – 6:55 AM PDT
JOHN STOBO PRITCHARD AWARD LECTURE:
Developmental and Epileptic Encephalopathies: What We Know and What We Do Not Know
Nicola Specchio, MD, PhD,
Bambino Gesù' Children's Hospital,
IRCCS, Rome, Italy

Introduced by Helen Cross, MB, ChB,
PhD, OBE FRCP, FRCPC



7:00 AM – 7:55 AM PDT
BERNARD SACHS AWARD LECTURE:
Genes as a Window into the Developing Brain
Joseph G. Gleeson, MD; University of
California San Diego, Rady Children's
Institute for Genomic Medicine,
San Diego, California, USA

Introduced by William Dobyns, MD

WEDNESDAY, OCTOBER 21



6:00 AM - 6:55 AM PDT
SHEILA WALLACE AWARD LECTURE:
Dietary Therapies for Epilepsy in Low Resource Settings: Challenges and Successes
Suvasimi Sharma, MD, DM;
Lady Hardinge Medical College and
Associated Kalawati Saran
Children's Hospital, New Delhi, India

Introduced by Pratibha Singhi, MBBS,
MD, FIAP, FNAMS



7:00 AM - 7:55 AM PDT
PHILIP R. DODGE YOUNG INVESTIGATOR AWARD LECTURE:
Molecular and Cellular Mechanisms of Excitation and Inhibition in Neurodevelopmental Disorders
Hsiao-Tuan Chao, MD, PhD;
Jan and Dan Duncan Neurological Research
Institute, Houston, Texas, USA

Introduced by Huda Zoghbi, MD

THURSDAY, OCTOBER 22



6:00 AM – 6:55 AM PDT
LINDA DE MEIRLEIR NEUROMETABOLIC AWARD LECTURE :
Update in Pediatric Neurometabolic Disorders 2020
Lance Rodan, MD, FRCP(C);
Boston Children's Hospital,
Harvard Medical School,
Boston, Massachusetts, USA

Introduced by Ingrid Tein, MD



7:00 AM – 7:55 AM PDT
HOWER AWARD LECTURE:
Migraine, Vertigo and Dizziness
Kenneth J. Mack, MD, PhD;
Mayo Clinic, Rochester, MN, USA

Introduced by Paul Youssef, MD

FRIDAY, OCTOBER 23



6:00 AM – 6:55 AM PDT
FRANK FORD AWARD LECTURE:
The Global Burden of Paediatric Neurological Disorders
Charles Newton, MD;
University of Oxford, Oxford,
United Kingdom, KEMRI-Wellcome
Trust Collaborative Programme,
Kilifi, Kenya

Introduced by Jo M. Wilmshurst,
MD, BS, MD

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16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting

ALL TIMES SHOWN: PACIFIC DAYLIGHT TIME

Monday, October 12

2:15 PM - 4:30 PM

**PROFESSORS OF CHILD
NEUROLOGY (PCN):
CLINICIAN TRAINING AND
ASSESSMENT**

This session is limited to members of the Professors of Child Neurology (PCN) and the Program Coordinators of Child Neurology (PCCN) and is offered as Part II of the PCN Annual Business Meeting. The recorded lectures listed are available for general viewing, but Live Q&A will not be included on the meeting platform.

Organizer:

Tim Lotze, MD; President, PCN; Baylor College of Medicine, Texas Children's Hospital, Houston, Texas, USA

***Child Neurology in the
21st Century: More than the
Sum of our RVUs***

Mary L. Zupanc, MD; CHOC Neurosciences Institute, University of California-Irvine; CHOC-Children's Hospital of Orange County, Orange, California, USA

***Creating a Clinical Educator
Track for Your Trainees***

James Reese, Jr., MD, MPH, MA, FAAN; University of New Mexico, Albuquerque, New Mexico, USA

Course Description:

The Professors of Child Neurology is attended by Residency Program Directors, Division Chiefs, and Program Coordinators who are members of the organization. The session includes two parts. The first part provides updates regarding organizational business, national involvement efforts of members, and updates from affiliated groups to include the AAP Section of Neurology. The second part of the meeting provides CME on selected topics which include a discussion of the current practice of child neurology in the era of productivity metrics and development of a clinician educator track for residents.

Learning Objectives:

1. Identify opportunities to educate residents regarding productivity metrics in clinical medicine.
2. Describe strategies for developing a clinical educator curriculum for residents seeking an academic career.

Impact Statements:

1. Attendees of the meeting will receive a comprehensive update on the current state of residency training.
2. Identify opportunities for ongoing program development at their own institution.

**Learning Objectives and
Impact Statement**

All Learning Objective statements listed for each session should be read as responses to the following: 'As a result of this educational session, participants will be able to:'

All Impact Statements listed for each session should be read as responses to the following: 'This educational session helped me to identify changes I could make in my practice related to:'

Tuesday, October 13

1:00 PM – 3:15 PM

**MEET THE EXPERTS:
EXPERIMENTAL THERAPEUTICS:
Gene Therapy for Childhood
Neurological Disorders**

Course Description:

Participants will gain an understanding of the rapidly evolving landscape of gene therapy for neurological disorders of childhood. We will discuss the basic principles of gene vector development and delivery, and describe specific diseases for which gene therapy is currently approved for clinical use or available as an experimental treatment in clinical trials. Finally, we will discuss challenges facing gene therapy development, including cost and worldwide accessibility.

Learning Objectives:

1. Understand the principles of gene therapy development and delivery.
2. Be able to describe how different gene therapy strategies can be used to treat specific neurologic diseases in children.

Impact Statements:

1. Recognizing genetic disorders that are amenable to treatment with gene therapy.
2. Identifying opportunities for patients with rare diseases to participate in clinical trials of experimental therapies.

Organizer:

Toni Pearson, MBBS;
Washington University
School of Medicine,
St. Louis, Missouri, USA

Targeting the Central Nervous System: Experiences with Gene Therapy for AADC Deficiency

Toni Pearson, MBBS

Gene Therapy Primer

Barry Byrne, MD, PhD;
Child Health Research Institute,
University of Florida,
Gainesville, Florida, USA

Experiences with Gene Therapy for Childhood Neuromuscular Disorders

Diana Bharucha-Goebel, MD;
Children's National Hospital &
National Institutes of Health,
Washington, DC, USA

Panel Discussion – Present and Future Challenges in the Development of Universally Accessible New Therapies for Ultra-Rare Diseases

Carsten G. Bönnemann, MD;
National Institute of Neurological Disorders and Stroke,
Bethesda, Maryland, USA

3:30 PM – 5:45 PM

**WORKSHOP: NEUROPSYCHIATRY/
MOVEMENT DISORDERS:
Practical Management of
Functional Neurologic Diseases
in Children**

Course Description:

Attendees to this symposium will gain knowledge and expertise in the recognition of children with functional neurologic disorders (FND), particularly those manifesting as non-epileptic seizures and movement disorders.

Additionally, participants will learn how to communicate a diagnosis to patients and families, as well as how to develop a plan of care and treatment that results in a lessening of disability and a resumption of normal participation for the child.

Learning Objectives:

1. Appropriately consider the place of functional neurologic disorders in the context of pediatric disorders of movement and pediatric paroxysmal disorders.
2. Effectively explain the diagnosis of functional neurologic disorders to families and children
3. Develop and implement appropriate treatment plans for children with functional neurological disorders and their families as a result of this educational session.

Impact Statements:

1. Accurately and confidently diagnosing functional neurological disorders in children.
2. Communication with families and children about functional neurological disorders.
3. The creation of effective treatment and management plans for children with functional neurological disorders.

Organizer:

Leon Dure, MD;
University of Alabama
at Birmingham,
Birmingham, Alabama, USA

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Psychogenic Non-Epileptic Seizures in a Pediatric Patient

Leon Dure, MD

Functional Neurologic Disorder Presenting as a Movement Disorder in a Pediatric Patient

Shekeeb Mohammad, MD, FRACP, PhD; The Children's Hospital at Westmead, Sydney, NSW, Australia

Practical Treatment and Management of Functional Neurological Disorders in Pediatric Patients

Aaron D. Fobian, PhD; University of Alabama at Birmingham, Birmingham, Alabama, USA

6:00 PM – 8:15 PM

MEET THE EXPERTS: ETHICS: COSTLY DRUGS AND HEALTHCARE – ETHICS AND VALUE PERSPECTIVES FROM DIFFERENT HEALTHCARE SYSTEMS

Course Description:

Healthcare is expensive in all countries and availability is often limited by affordability. The development of new ultra-expensive, first-in-class specialty biopharmaceuticals for rare neurological diseases exacerbates the health care affordability problem. The objective of this symposium is to discuss the ethical challenges and practical approaches to the rising cost of prescription drugs and healthcare in different healthcare systems.

Learning Objectives:

1. Understand why exorbitant drug pricing poses direct challenges for distributive justice, which is concerned with the fair distribution of benefits and burdens across society.
2. Understand why costly treatments inevitably lead to some type of “rationing” such as limitations of access (lack of insurance coverage), cost (excessive out-of-pocket expenses), or long wait times.

Impact Statements:

1. Understanding the ethical challenges of rising costs in all healthcare systems.
2. Explaining to patients how healthcare affordability may affect access to certain new treatments now and in the future.

Organizer:

William D. Graf, MD, FAAP, FAAN; Connecticut Children's, Farmington, Connecticut, USA

Growing Disparities in International Healthcare – Ethical Perspectives on the Availability Versus Affordability Crisis

William D. Graf, MD, FAAP, FAAN

Costly Drugs and Healthcare – Challenges for Distributive Justice and the Inevitability of Rationing

Amy Y. Tsou, MD, MSc; ECRI Institute, Michael J Crescenz VA Medical Center, Philadelphia, Pennsylvania, USA

The Economization of Healthcare in Germany – Lessons for a Science-based, Patient-centered and Needs-orientated Care

Klaus-Peter Zimmer, MD PhD; UKGM, Standort Gießen / Justus-Liebig-Universität; Gießen, Germany

Rising Prescription Drug Costs in Canadian Healthcare – The Implementation of National Pharmacare

Michael Shevell, MDCM, FRCP, FCAHS; McGill University, Montreal Children's Hospital, Montreal, Quebec, Canada

6:00 PM – 8:15 PM

MEET THE EXPERTS: NEUROIMMUNOLOGY: Para-infections and Seronegative Autoimmune Encephalitis in Children: Updates and Controversies

Course Description:

Encephalitis in children are most frequently infectious, parainfectious or autoimmune in etiology. CSF profile, next generation sequencing, and neuroimaging, can help differentiate infectious versus autoimmune causes in some cases, but the etiology remains uncertain in more than half of the patients. Even when autoimmune encephalitis (AE) is greatly suspected, CSF antibodies are encountered in less than 50% of the cases. Furthermore, viruses can trigger autoimmune responses. Thus, differentiating infectious versus parainfectious and seronegative AE are common challenges encountered in clinical practice, and treatment strategies frequently overlap.

In this symposium we will dive into the parainfectious phenomenon through 2 examples: the pathophysiology of ADEM and the post-herpetic NMDA R ab encephalitis. We will also discuss controversies regarding management of seronegative AE and the escalation of immune therapy.

Learning Objectives:

1. Acquire tools to help differentiating infectious versus non-infectious AE in the clinical practice.
2. Acknowledge the diagnostic challenges and controversies in the management of encephalitis in children and determine which encephalitic processes may benefit from escalation in immune therapy.

Impact Statements:

1. Adequate management of Acute Encephalitis in children.
2. Appropriate use of immunotherapy in Seronegative autoimmune encephalitis.

Organizer:

Cristina Fernandez-Carbonell, MD;
Cohen's Children Medical Center,
Lake Success, New York, USA

Introduction: Infectious, Parainfectious and Autoimmune Encephalitis. Challenges in Clinical Practice

Cristina Fernandez-Carbonell, MD

Parainfectious Encephalitis and ADEM. Updates and Controversies

Silvia Tenenbaum, MD;
National Paediatric Hospital

Dr. Juan P. Garrahan,
Buenos Aires, Argentina

Postviral Autoimmune Encephalitis: The Case of Post-Herpetic NMDAR Antibody Encephalitis

Thais Armangué, MD, PhD;
IDIBAPS-Hospital Clinic,
University of Barcelona,
Sant Joan de Déu Children's
Hospital, University of Barcelona,
Barcelona, Spain

Seronegative Autoimmune Encephalitis. Updates and Controversies

Russell Dale, MRCP, PhD;
Children's Hospital at Westmead,
University of Sydney,
Sydney, NSW, Australia

6:00 PM – 8:15 PM

SEMINAR: EPILEPSY: Don't Ask Don't Tell, or Full Disclosure? Discussing SUDEP with Patients and Families in the Global Community**Course Description:**

In spite of uniform parental desire for information, consistent SUDEP counseling is not happening in our pediatric neurology practices globally. This session highlights the important cultural barriers that prevent child neurologists from discussing SUDEP by providing information on the incidence and frequency of mortality in pediatric epilepsy patients, as well as our current understanding of the pathophysiology of SUDEP. This will be followed by a panel of experts throughout the globe who will describe the unique cultural beliefs that affect discussing SUDEP and mortality in his/her region.

Learning Objectives:

1. Gain a better understanding of the frequency and potential pathophysiology of SUDEP in pediatric epilepsy patients
2. Recognize differences in cultural practices regarding discussing SUDEP and mortality in pediatric epilepsy patients

Impact Statements:

1. Understanding the parental desire for SUDEP and epilepsy mortality counseling
2. Identifying potential cultural barriers that prevent the participant from discussing SUDEP and epilepsy-related mortality in his/her practice

Organizer:

Katherine Nickels, MD, FAES, FAAN;
Mayo Clinic College of Medicine,
Rochester, Minnesota, USA

How Common is the Nightmare? Global Frequency and Causes of Mortality in Pediatric Epilepsy

Elizabeth Donner, MD, MSc, FRCPC;
The Hospital for Sick Children,
University of Toronto,
Toronto, Ontario, Canada

What is our Current Understanding of SUDEP in Pediatrics

Omar Abdel-Mannan, MRCPCH, MA,
Great Ormond Street
Hospital for Children,
London, UK

Panel Discussion

- Jeffrey Buchhalter, MD, PhD;
University of Calgary,
Calgary, Alberta, Canada
- J Helen Cross MB, ChB, PhD,
OBE FRCP, FRCPC;
UCL Great Ormond Street
Institute of Child Health,
London, UK
- Manjari Tripathi, DM;
All India Institute of
Medical Sciences,
Delhi, India
- Viviana Venegas, MD;
Advanced Center of Epilepsy,
Clinica Alemana de Santiago,
Institute of Neurosurgery,
Santiago, Chile



**16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting**

Wednesday, October 14

8:00 AM – 10:15 AM

**SEMINAR:
NEUROINFECTIOUS DISEASE:
Measles Vaccination – Current
Situation and Consequences –
A Global Perspective**

Course Description:

- Repercussions of the present trends in measles vaccination due to increasing exemptions – short & long term effects on the developed and developing world.
- Efforts required on the part of the Child Neurology fraternity to help with the drive for regional and eventually global eradication. Lessons from Smallpox and Polio.
- Latest understanding into the neuro-immunology of the measles virus, highlighting the role of research options in the treatment and or cure of SSPE.

Learning Objectives:

1. Know the present status of measles with a global perspective. How the present drop in immunization is going to affect the clinical scenario – today & in the future, along with their role in the eradication process.
2. Understand the neuro-immunology of the measles virus – understanding present and future research in the treatment and cure for SSPE.

Impact Statements:

1. Understand the implications of drop in measles vaccination? – the immediate and long term picture. How this knowledge will help to convince patients to immunize their children? How can each of us help in the measles eradication process
2. Understanding of the neuro-immunology of the measles virus. Understanding different research options in SSPE, with the hope of a cure or treatment in the near future.

Organizer:

Anaita Udawadia-Hegde, MD,
MRCPCH;
Jaslok Hospital & Research Centre,
SRCC NH Children's Hospital,
Wadia Children's Hospital,
Mumbai, India

Co-Organizer:

Pauline Samia, MBChB,
MMed Peds, MPhil;
Aga Khan University,
Nairobi, Kenya

***Impact of the Measles Outbreak –
A Global Perspective***

Kristen A. Feemster, MD,
MPH, MSPHR;
Children's Hospital of Philadelphia,
Philadelphia, Pennsylvania, USA

***Measles Eradication –
Where do we Stand***

Anaita Udawadia-Hegde, MD,
MRCPCH

***Why Can't we Eradicate Measles –
Data from the Developing World***

Pauline Samia, MBChB,
MMed Peds, MPhil

***Newer Understanding of the
Immunological Basis of
Measles & SSPE***

Banu Anlar, MD;
Hacettepe University,
Ankara, Turkey

8:00 AM – 10:15 AM

**SEMINAR: STROKE:
Pediatric Stroke in the
Era of Advanced Genetics**

Course Description:

The adverse health and economic impacts of pediatric arterial ischemic stroke are increasingly appreciated. Mechanisms underlying childhood arterial ischemic stroke (AIS) are heterogeneous and poorly understood but critical for the development of targeted interventions. Cerebral vasculopathies are one of the major causes of pediatric stroke. Genetic discoveries are being increasingly recognized as an important cause of many cerebral vasculopathies. This symposium will highlight the role of advanced genetic analysis in pediatric cerebrovascular diseases, focusing on the common and currently known genes and molecular pathways involved in genetic cerebral vasculopathies.

The role of vascular smooth muscle cell dysfunction will be highlighted, as well as the role of endothelial cell dysfunction in small vessel diseases. Current approaches for the genetic evaluation and its implementation in pediatric stroke based on a clinical and radiological-driven approach will be discussed, using a pattern-recognition approach. Existing challenges in the provision of accurate definition and phenotyping of patients with vasculopathies in order to facilitate future genotype-phenotype correlations and identify novel associations and disease mechanisms will be highlighted along with potential ways for enhancing gene discoveries in this developing field.

Learning Objectives:

1. Identify specific clinical as well as radiological phenotypes associated with common and newly described monogenic disorders related to pediatric stroke
2. Understand the basic concepts of cellular and molecular pathways involved in genetic medium to large cerebral stenocclusive arteriopathies and small vessel diseases.

Impact Statements:

1. Identify clinical and radiological patterns of recently discovered genetic cerebral vasculopathies including arteriopathies and small-vessel diseases.
2. Understand the basic pathophysiological concepts involved in pediatric cerebral vasculopathies

Introduction: An Overview of the Genetic Landscape of Pediatric Stroke

Moran Hausman-Kedem, MD;
Pediatric Neurology Institute,
Dana-Dwek Children's Hospital,
Tel-Aviv Sourasky Medical Center,
Tel Aviv, Israel

Mechanistic Insights from Monogenic Causes of Cerebrovascular Diseases

Vijeya Ganesan MD;
UCL Great Ormond Street
Institute of Child Health,
London, UK

Fits and Misfits: Radiographic Approach to Genetic Diagnosis in Stroke

Nomazulu Dlamini, MBBS,
MRCPCH, MSc (Lon), PhD;
The Hospital for Sick Children
and University of Toronto,
Toronto, Ontario, Canada

Clinical Management and Future Perspectives of Genetic Cerebrovascular Diseases

Patricia L. Musolino, MD, PhD;
Massachusetts General Hospital,
Harvard Medical School,
Boston, Massachusetts, USA

10:00 AM – 12:15 PM

WORKSHOP: EPILEPSY: PEDIATRIC EPILEPSY SURGERY: When, by Whom, and What to Expect?

Course Description:

Epilepsy surgery is a highly successful treatment option for children with focal and lesional epilepsy. Despite its excellent seizure outcomes and cognitive benefits, surgery is still underutilized and a large treatment gap remains between geographical regions worldwide. This symposium aims to increase the awareness of epilepsy surgery, inform the audience about novel insights in surgical indications, timing, seizure- and cognitive outcomes, and their determinants. We will present the newly defined ILAE criteria for different levels of care in pediatric epilepsy surgery centers and address minimum requirements for surgical procedures in the context of the existing treatment gap.

Learning Objectives:

1. Identify candidates for epilepsy surgery and counsel children and parents about its expected seizure- and cognitive outcomes
2. Name the two levels of care for pediatric epilepsy surgery centers and the main requirements to establish such centers

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OCTOBER 12-23, 2020

Wednesday, October 14 • continued

Impact Statements:

1. Indications for referral of children with epilepsy for presurgical evaluation
2. Counselling of patients and their parents about expected outcomes of epilepsy surgery

Organizer:

Prof. Dr. Kees P.J. Braun,
University Medical Center Utrecht,
UMCU Brain Center,
Utrecht, Netherlands

***Epilepsy Surgery in Children:
Indications and Seizure-outcome***

Prof. Dr. Kees P.J. Braun

***Cognitive and Behavioural
Outcome after Epilepsy Surgery***

J Helen Cross MB, ChB, PhD, OBE
FRCP, FRCPCH; UCL
Great Ormond Street
Institute of Child Health,
London UK

***Criteria for Pediatric
Epilepsy Surgery Centers;
What about the Treatment Gap?***

William D. Gaillard, MD;
Children's National Medical Center,
Washington, DC, USA

10:30 AM – 12:45 AM

**SEMINAR: NEUROGENETICS:
Recent Advances in the Etiologies
and Mechanisms Underlying
Common Brain Malformations**

Course Description:

1. Understand recent advances in the genetic causes and mechanisms underlying common brain malformations, focusing on polymicrogyria, lissencephaly and cortical dysplasia.
2. Understand the imaging and phenotypic spectrum for the common genetic causes of common brain malformations.
3. Understand how advances in genetics have led to a better understanding of seizure generation in focal cortical dysplasia.

Learning Objectives:

1. Identify the most common genetic causes of lissencephaly, polymicrogyria and cortical dysplasia.
2. Determine the most appropriate genetic workup for children with lissencephaly, polymicrogyria and cortical dysplasia following review of clinical and imaging features.

Impact Statements:

1. Recognising the imaging features of different brain malformations.
2. Understanding the most likely genetic causes of lissencephaly, polymicrogyria and cortical.

Organizer:

Rick Leventer, FRACP, PhD;
The Royal Children's Hospital
Melbourne, Parkville,
Victoria, Australia

Co-Organizer:

William Dobyns, MD;
University of Washington,
Seattle, Washington, USA

***Cortical Dysplasia: Linking Genes
to Seizure Generation***

Rick Leventer FRACP, PhD

***Lissencephaly: Novel Clinical
and Molecular Insights***

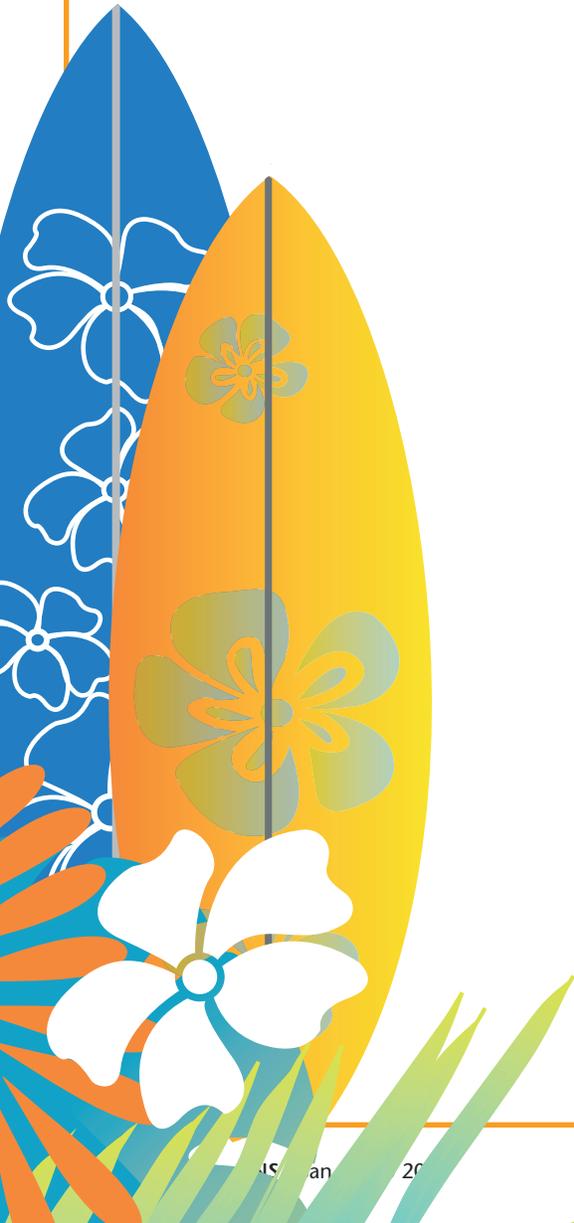
Nataliya Di Donato, MD,
Institute for Clinical Genetics,
TU Dresden,
Dresden, Germany

***Polymicrogyria: A Clinical and
Genetically Heterogenous
Malformation***

Anna C. Jansen, MD, PhD,
Pediatric Neurology Unit,
UZ Brussel,
Brussels, Belgium

Conclusion & Future Directions

William Dobyns, MD



1:00 PM – 3:15 PM

**SEMINAR: NEUROIMMUNOLOGY:
A New Era for Patients with
NMOSD, including Children**

Course Description:

- To learn current diagnostic criteria for NMO/NMOSD
- To know updated information on the diagnostic biomarkers and appropriate laboratory techniques
- To learn current rescue therapies for acute events, and introducing novel relapse prevention strategies for patients with NMOSD

Learning Objectives:

1. Learn new clinical and neuroimaging diagnostic criteria for NMO/NMOSD and corresponding biomarkers
2. Receive updated information on current rescue therapies for severe acute CNS events, and learn on relapse prevention strategies, including novel immunosuppressive drugs.

Impact Statements:

1. The appropriate diagnosis of NMOSD
2. The relevant data about treatment options that should be considered for the correct treatment of acute events and relapse prevention with immunosuppression in children.

Organizer:

Silvia N. Tenenbaum, MD;
National Pediatric Hospital
Dr. Juan P. Garrahan,
Buenos Aires, Argentina

Co-Organizer:

E. Ann Yeh, MD, MA, FRCPC;
Hospital for Sick Children,
University of Toronto,
Toronto, Ontario, Canada

**Introduction: Current Diagnostic
Criteria of Neuromyelitis Optica
Spectrum Disorders (NMOSD)**

Silvia N. Tenenbaum, MD

**Diagnostic Biomarkers of NMOSD:
AQP4-IgG and MOG-IgG**

Thaís Armangue, MD, PhD;
IDIBAPS-Hospital Clinic,
University of Barcelona,
Sant Joan de Déu Children’s
Hospital, University of Barcelona,
Barcelona, Spain

**Current Preventive Treatment
Strategies for NMOSD**

E. Ann Yeh, MD, MA, FRCPC

**New Era on Preventive Treatment
of NMOSD: Recently Approved
and Investigational Agents**

Tanuja Chitnis MD, FAAN;
Harvard Medical School,
Boston, Massachusetts, USA

Treatment of Acute Clinical Events

Andrea Savransky, MD;
National Pediatric Hospital
Dr. J. P. Garrahan,
Buenos Aires, Argentina

6:00 PM – 8:15 PM

**JUNIOR MEMBER SEMINAR:
Becoming a Physician Scientist
in Pediatric Neurology**

Course Description:

How do we conduct a good research and write a good scientific paper? We will approach this universal question through three specific talks: “Common faults editors see”, “What PhD brings to research” and “Research outside a medical center”. This symposium is aimed to help young physicians embark on their research journey.

Learning Objectives:

1. Learn the common pearls and pitfalls in writing a good manuscript.
2. Better plan their medical research career path, especially for those in their early stages.

Impact Statements:

1. Improve skills to write a scientific paper.
2. Better plan one’s medical research career path.

Organizer:

Chang-Chun Wu, MD;
Department of Pediatrics,
Taipei City Hospital,
Taipei, Taiwan

Co-Organizer:

Hiroya Nishida, MD;
Tokyo Metropolitan Institute
of Medical Science,
Tokyo, Japan

**What are the Common
Faults Editors See?**

Jonathan W. Mink, MD, PhD;
University of Rochester,
Rochester, New York, USA

**What PhD Brings to our
Research and Clinical Work?**

Pratibha Singhi, MBBS, MD,
FIAP, FNAMS;
Medanta, The Medicity,
Gurgaon, Haryana, India

**Suggestions on Research
Outside a Medical Center**

Takeru Honda, PhD;
Tokyo Metropolitan Institute
of Medical Science,
Tokyo, Japan



16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting

Thursday, October 15

10:30 AM – 12:45 PM

WORKSHOP: GLOBAL NEUROLOGY: Training to Bridge the Gap in Global Access to Child Neurology Care

Course Description:

The participants will gain specific knowledge about barriers to access to child neurology care in diverse settings, with an emphasis on South America and Sub-Saharan Africa. They will learn about socioeconomic, geographic, and infrastructure barriers that continue to limit access to care. They will acquire knowledge about three specific settings where training programs are bridging these gaps in access to child neurology care.

Learning Objectives:

1. Understand some of the socioeconomic, geographic, and infrastructure barriers that continue to limit access to child neurology care globally
2. Become aware of a variety of approaches to training to overcome those barriers.

Impact Statements:

1. How to design educational and training programs to sustainably improve access to child neurology care in diverse settings
2. How to participate in educational and training programs that increase access to child neurology care in low to moderate resource settings.

Organizer:

Alex R. Paciorkowski, MD;
University of Rochester
Medical Center,
Rochester, New York, USA

Child Neurology in Brazil, a Model and Challenges

Helio van der Linden, Jr., MD;
Instituto de Neurologia de Goiânia,
Goiânia, Goiás, Brazil

Breaking New Ground in Zambia - First Child Neurology Trainees

Nfwama Kawatu, MD;
University Teaching Hospitals,
Children's Hospital,
Lusaka, Zambia

Innovative Child Neurology Curriculum in Ecuador

Kevin Shapiro, MD, PhD;
Cortica Healthcare,
Los Angeles, California, USA

1:00 PM – 3:15 PM

JUNIOR MEMBER SEMINAR: Nurturing the Global Pipeline of Academic Child Neurologists

Course Description:

There is an ever-growing gap between the need for clinical Child Neurology and Neurodevelopmental Disabilities services and the number of trained practitioners throughout the world. In this setting, nurturing and encouraging trainees and junior faculty towards an academic career path is a constant, but necessary, enterprise to ensure that clinically focused research in our field continues to scale as well. This seminar will discuss the current challenges and opportunities for training the next generation of Child Neurology physician-scientists both within the US and globally. There is an ever-growing gap between the need for clinical Child Neurology and Neurodevelopmental Disabilities services and the number of trained practitioners throughout the world. In this setting, nurturing and encouraging trainees and junior faculty towards an academic career path is a constant, but necessary, enterprise to ensure that clinically focused research in our field continues to scale as well. This seminar will discuss the current challenges and opportunities for training the next generation of Child Neurology physician-scientists both within the US and globally.

Learning Objectives:

1. Understand and educate others about the training and funding mechanisms available to support trainees and junior faculty interested in an academic Child Neurology career path.
2. Be aware of the research and service delivery priorities for expanding Child Neurology access globally in addition to training more practitioners.

Impact Statements:

1. Encouraging trainees and junior faculty to pursue academic career paths.
2. Prioritizing lines of research and training that are globally applicable.

Organizer:

Alexander Li Cohen, MD, PhD;
Boston Children's Hospital,
Boston, Massachusetts, USA

***The NIH Perspective on
the Child Neurology
Physician-Scientist Workforce***

Adam L. Hartman, MD, FAAP,
FANA, FAES;
National Institute of
Neurological Disorders & Stroke
Neuroscience Center,
Rockville, Maryland USA

***Building a More Diverse
Pediatric Research Community***

Erika Augustine, MD, MS;
University of Rochester
Medical Center,
Rochester, New York, USA

***Growing a Global(Iy Capable)
Pediatric Neurology Workforce***

Jo M. Wilmshurst, MB, BS, MD,
Red Cross War Memorial
Children's Hospital, University of
Cape Town, Cape Town,
Western Cape, South Africa

3:30 PM – 5:45 PM

**MEET THE EXPERTS: BEHAVIORAL
NEUROLOGY: Management
of Behavior in Children with
Neurodevelopmental Disorders**

Course Description:

Pediatric Neurologists now care for more children and adolescents with neurodevelopmental disabilities as the prevalence increases worldwide. The neurobehavioral care of these children is especially challenging. This Meet the Experts session will address some of the common behavioral management issues through case-based presentations of children with neurodevelopmental disorders including Autism, Tuberous Sclerosis, Fetal Alcohol Syndrome and other intellectual disabilities and Phelan McDermid Syndrome. The Experts will discuss management of problems such as irritability, behavior issues in a child with epilepsy, Attention and executive function challenges and sleep.

Learning Objectives:

1. Treat four common behavior challenges in children with NDD's including irritability, anxiety, attention and sleep.
2. Understand some of the behavior challenges in children with autism, tuberous sclerosis complex, fetal alcohol syndrome, and Phelan McDermid Syndrome, their shared characteristics across disorders but also unique challenges.

Impact Statements:

1. Identifying behaviors in minimally verbal children and NDD
2. Treatment of behaviors in children with NDD.

Organizer:

Ann M. Neumeyer, MD;
Massachusetts General Hospital,
Boston, Massachusetts, USA

Moderator:

Sarah Spence, MD PhD,
Boston Children's Hospital,
Boston, Massachusetts, USA

***Case 1: Behavior Changes
and Anxiety in a Child with
Tuberous Sclerosis Complex***

Shafali Spurling Jeste, MD;
UCLA David Geffen
School of Medicine,
Los Angeles, California, USA

***Case 2: Behavior Changes
and Irritability in a Child with
Autism Spectrum Disorder***

Evdokia Anagnostou, MD;
University of Toronto,
Bloorview Research Institute,
Holland Bloorview Kids
Rehabilitation Hospital,
Toronto, Ontario, Canada

***Case 3: Identifying and Treating
Executive Function and
Inattention in a Child with
Fetal Alcohol Syndrome***

Kirsten A. Donald MD, PhD,
University of Cape Town,
Cape Town, South Africa

***Case 4: Behavior Changes and
Sleep in a Child with Phelan
McDermid Syndrome***

Ann M. Neumeyer, MD;
Massachusetts General Hospital,
Boston, Massachusetts, USA

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OCTOBER 12-23, 2020

Thursday, October 15 • continued

6:00 PM – 8:15 PM

MEET THE EXPERTS: NEUROMETABOLIC DISORDERS: Unravelling the Complexity of Treatable Neurometabolic Disorders: A Case-based Session

Course Description:

Inborn errors of metabolism (IEM) are individually rare but collectively they form a major group of treatable disorders in children. Affected children manifest with neurological and psychiatric symptoms that overlap more common conditions, and delayed diagnosis is not uncommon. Enhancing knowledge and understanding of these conditions will help neurologists establish early diagnosis. Unravelling

the complexity of treatable neurometabolic disorders will enhance knowledge and impact outcomes through appropriate multidisciplinary management. This symposium will focus on the approach and management of patients with treatable neurometabolic disorders, IEM associated with hyperammonemia, pediatric neurotransmitter disorders, cerebral creatine deficiency syndromes and treatable IEMs associated epilepsies.

Learning Objectives:

1. Understand key metabolic pathways involved in the biosynthesis of essential neurotransmitters, the clinical presentations and the role of the laboratory in diagnosis of primary defects in neurotransmitter metabolism
2. Identify biochemical abnormalities and the clinical consequences in primary hyperammonemic disorders, their diagnoses and management
3. Identify the clinical phenotypes, diagnose various subtypes and optimize the management of inherited cerebral creatine deficiency syndromes
4. Identify the phenotype and diagnose treatable metabolic causes of epilepsy in children and adolescents.

Impact Statements:

1. Timely recognition, utilization of appropriate biochemical and genetics testing to establish early diagnosis and improve outcomes in the four groups of metabolic disorders discussed through appropriate therapeutic interventions

2. Enhancing collaboration and establishing networks in the global pediatric neurology community dedicated to improve the outcomes of children affected by neurometabolic disorders.

Organizer:

Asuri N. Prasad, MBBS, MD, FRCPC, FRCPEdin, FAES;
Schulich School of Medicine and Dentistry Western University,
London, Ontario, Canada

Primary Disorders of Neurotransmitter Metabolism: Challenges in Diagnosis & Management

Asuri N. Prasad, MBBS, MD, FRCPC, FRCPEdin, FAES

Primary Hyperammonemic Disorders: Neurological Implications, Current Diagnosis and Management Strategies

Bindu Parayil Sankaran MD,
DM, FRACP, PhD;
Children Hospital at Westmead
NSW, Sydney, Australia

Epilepsies Associated with IEM

Annapurna Poduri, MD, MPH;
Boston Children's Hospital,
Harvard Medical School,
Boston, Massachusetts, USA

Cerebral Creatine Deficiency Syndromes - An Underdiagnosed Entity: Clinical Aspects and Management

Sangeetha Yoganathan, MD, DNB,
DM; Christian Medical College,
Tamil Nadu, India



16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting

Friday, October 16

8:00 AM - 10:15 AM

MEET THE EXPERTS:

NEURO-CUTANEOUS DISORDERS:

IN SPANISH: Neurocutaneous Syndrome Iberoamerican Network

Course Description:

The aim of the Iberoamerican network is to implement an international collaboration where healthcare professionals (pediatric epileptologists, pediatric neurologist, geneticists, neurosurgeons, pediatricians, psychologists, nurses, etc.), affected families and caregivers from different countries share their field of expertise, knowledge and experiences. A platform enables sharing and empowers families.

The main objective of the symposium is to emphasize the importance of early diagnosis, adequate treatment and precise follow-up in the more prevalent Neurocutaneous Diseases.

Learning Objectives:

1. Learn about the spectrum of clinical presentation, importance of early diagnosis, adequate treatment and accurate follow up.
2. Have a clear understanding of the benefits of having a multidisciplinary team for the treatment and surveillance of patients and their families.

Impact Statements:

1. The use of appropriate diagnostic and treatment algorithms concerning the management of these patients.
2. The development of a multidisciplinary approach.

Organizer:

Federico Jose Ramos, MD;
Sant Joan de Déu Hospital,
Barcelona, Spain

Introduction

Federico Jose Ramos, MD

Update on mTOR Inhibition as Treatment for Neurological Tuberous Sclerosis Complex (TSC) Manifestations

Lorena Lechuga-Becerra, MD;
Sofia Salud, Mexico City, Mexico

Early Management and Strategies for the Treatment of Epilepsy Associated with Sturge Weber Syndrome

Bolívar Quito-Betancourt MD;
Hospital Monte Sinai,
Cuenca, Ecuador

Neurocognitive Problems and Impact of Individualized Neuropsychological Intervention for Children with Neurofibromatosis Type 1 (NF1)

Alba Parra Checa, MSc;
Sant Joan de Déu Hospital,
Barcelona, Spain

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OCTOBER 12-23, 2020

Friday, October 16 • continued

10:30 AM – 12:45 PM

SEMINAR: HEADACHE: **IN SPANISH: Migraine in Children and Adolescents – Diagnosis, Management and Treatment**

Course Description:

This seminar about Migraine in Children and Adolescents, addressed in Spanish, will allow participants to learn and/or review the diagnostic criteria, epidemiology, therapeutic modalities, economic impact and quality of life data regarding Migraine in the Pediatric population in The Americas. Through lecture format and case presentation, participants will learn and/or review therapeutic modalities for migraine, including cognitive behavioral therapy (CBT), acute medications, preventive medications, “natural” treatments and neuromodulation. Participants will learn about “ointments, concoctions and potions” and will learn perspectives related to the level of scientific evidence for each therap. Participants will learn about health habit modification, accommodations in school, exercise, meditation and psychiatric comorbidities for patients with migraine. In addition, participants will learn about the similarities and differences in the practice of pediatric neurology (US vs Canada vs Latin America), as it relates to the regional, cultural and social norms, as well as the resources available to each demographic.

Learning Objectives:

1. Know the diagnostic criteria, epidemiology, therapeutic modalities, economic impact and quality of life data regarding Migraine in the Pediatric population in The Americas.
2. Know the importance of health habit modification, accommodations in school, exercise, meditation and addressing psychiatric comorbidities for pediatric patients with migraine.

Impact Statements:

1. Implementing a comprehensive plan for the management of migraine in the pediatric population that includes pharmacological as well as non-pharmacological therapies.
2. Implementing actions that will address reintegration to school and management of psychiatric comorbidities in patients with migraine.

Organizer:

Clarimar Borrero-Mejias, MD;
Barrow Neurological Institute
at Phoenix Children’s Hospital,
University of Arizona –
COM- Phoenix,
Phoenix, Arizona, USA

Migraine: Diagnosis, Epidemiology and Burden of Disease in The Americas

Edith Alva Moncayo MD;
President of Mexican Council of
Neurology and Pediatric Neurology
in Medical Center La Raza IMSS,
México

Migraine Therapies: Medications and Beyond

Denia Ramirez-Montealegre MD,
MPH, PhD; The University of
Tennessee Medical Center
Knoxville, Tennessee, USA

Migraine: Habits, School, Mind and Mood

Clarimar Borrero-Mejias, MD

10:30 AM – 12:45 PM

SEMINAR: NEUROINFLAMMATION: Interferonopathies

Course Description:

The objectives are to be able to consider interferonopathies in the appropriate context of progressive or static encephalopathies, to learn about their pathogenesis, and possibilities of treatment.

Learning Objectives:

1. Think of a particular group of disorders with variable age of onset and severity, but typical constellation of symptoms.
2. Start the work-up or where to refer if needed.

Impact Statements:

1. This session allowed me to consider a hereditary disorder in the differential diagnosis of intrauterine infections, cerebral calcifications, or hereditary paraparesis.
2. I will include recessive interferon pathway disorders in any child with slowly progressive or static neurological deficits, particularly when more than one offspring is affected in the family albeit at different degrees.

Organizer:

Banu Anlar, MD;
Hacettepe University,
Ankara, Turkey

Case Presentations Illustrating the Clinical Spectrum

Banu Anlar, MD

Molecular Pathogenesis and Treatment Targets

Adeline Vanderver, MD;
Children’s Hospital of Philadelphia,
Philadelphia, Pennsylvania, USA

Monogenic Interferonopathies with Non-Aicardi

Goutieres Phenotype
Raphaella Goldbach-Mansky MD,
MHS; Laboratory of NIAID/NIH,
Bethesda, Maryland, USA

Discussion & Questions

10:30 AM - 12:45 PM

SEMINAR: NEONATAL NEUROLOGY: The Value of Magnetic Resonance Imaging in the Newborn

Course Description:

The participant will gain knowledge regarding the appropriate use of MRI in the neonatal period under a variety of conditions. In particular, the parent and clinician perspectives will be highlighted so as to inform the decision-making process.

Learning Objectives:

1. Make an informed decision about when to obtain an MRI in the newborn period.
2. Understand what MRI offers in conditions such as neonatal stroke, hypoxic-ischemic encephalopathy, congenital heart disease and extreme prematurity.

Impact Statements:

1. When to order MRI in the newborn.
2. The need for MRI in the preterm newborn and the appropriate time to get it.

Organizer:

Donna M. Ferriero, MD, MS;
UCSF Weill Institute for Neurosciences,
San Francisco, California, USA

Tailor Made Prediction of Neonatal Stroke

Linda S. de Vries, MD, PhD;
University Medical Center Utrecht,
the Netherlands

Congenital Heart Disease and Brain MRI: The Heart of the Matter

Steven Paul Miller, MDCM, MAS,
FRCPC; The Hospital for Sick Children, The University of Toronto,
Toronto, Ontario, Canada

Preterm MRI - Is it Immature Information?

Terrie Inder, MBChB, MD;
Brigham and Women's Hospital,
Boston, Massachusetts, USA

MRI after Therapeutic Hypothermia - Are there Cool Findings

Donna M. Ferriero, MD, MS

Questions & Answers

10:30 AM - 12:45 PM

MEET THE EXPERTS: NEUROMUSCULAR: The Many Faces of Pediatric Neuromuscular Diseases: Cases, Approaches, Pearls and Challenges

Course Description:

Neuromuscular diseases encompass a heterogeneous group of disorders which may be genetically determined, genetic or acquired, congenital or later onset, acute or chronic, and progressive, static or intermittent. Specific therapies are emerging for an increasing number of diseases with promising results for genetically determined diseases of the neuromuscular system, including spinal muscular atrophy, Duchenne muscular dystrophy and treatable myopathies, but also for acquired conditions. The entry point for any directed therapy however is an accurate diagnosis.

The aim of this 'Meet the Experts' session for the Junior Members of ICNA, non-member trainees and anyone interested is to discuss selected case presentations from different age groups and patient populations, reflecting daily practice from different sites and resources in an interactive way, with a focus on the various tools we have to achieve a diagnosis. These are ranging from the purely clinical, the extended phenotype (imaging and electrodiagnostics), biopsy, to genetic and genomic investigations.

Educational objectives for the symposium are three fold:

1. Review clinical clues from a detailed history and points on the physical examination and discuss when to consider a neuromuscular disease
2. Teach how to integrate clinical phenotype, and/or imaging and histology, as well as genetic tools to arrive at a diagnosis
3. How to confirm or refute a suspicious but not yet diagnostic genotype, based on careful iterative clinical analysis

Learning Objectives:

1. Approach to most common neuromuscular presentations including early-onset muscle diseases, and recognize various important phenotypes in the pediatric age group using clinical, extended clinical, and basic laboratory clues
2. Learn to fully characterize the patient to create a differential diagnostic list of diagnostic possibilities based on the patient presentation and exam-based localization according to anatomic region and systems involved, and combine traditional and modern diagnostic testing and consider management strategies including proactive treatment opportunities

Friday, October 16 • continued

Impact Statements:

1. Awareness of the many different presentations in the pediatric neuromuscular field and recognition of patients in whom a neuromuscular specialist should be referred in the 'Pediatric Neurology' practice
2. Recognition of most common clinical phenotypes, individualized clinical and laboratory approaches, molecular diagnostic tests, and management strategies including genetic counseling in the pediatric neuromuscular disorders field

Organizer:

Göknur Haliloğlu, MD;
Hacettepe University
Children's Hospital,
Ankara, Turkey

Case Presentations

Göknur Haliloğlu, MD

Carsten G. Bönnemann, MD;
National Institute of Neurological
Disorders and Stroke,
Bethesda, Maryland, USA

1:00 PM – 3:15 PM

WORKSHOP: EPILEPSY/GENERAL CHILD NEUROLOGY: Telehealth – A Means to Global Outreach

Course Description:

This workshop will bring together a panel of experts to review wide ranging applications of telemedicine technologies and provide resources to an international audience to implement programs, collaborate with experts and colleagues and develop virtual outreach capability. This session will address resources for Child Neurologists, opportunities to empower primary care providers to increase their confidence, and self-efficacy in co-managing common neurological conditions and partner with specialists in Pediatric Neurology care.

Learning Objectives:

1. Understand the range of applications of Telemedicine Technologies
2. Avail of resources to connect with programs for increasing physician capacity for managing neurological conditions

Impact Statements:

1. Recognizing applications of telemedicine as a plausible, attractive and cost-effective option to foster regional as well as international collaboration in patient care and education
2. Improving capacity of referring physicians in increasing self-efficacy and confidence in co-managing neurological disorders

Organizer:

Sucheta Joshi, MD, MS;
Michigan Medicine,
Ann Arbor, Michigan, USA

Co-Organizer:

Charuta Joshi, MBBS;
Children's Hospital Colorado,
Anschutz Medical Campus,
Aurora, Colorado, USA

Act Local, Reach Global: The Impact of Telementoring through Project ECHO

Sucheta Joshi, MD, MS

The Guatemala-Colorado Child Neurology Telemedicine Experience

Diana Walleigh, MD;
Children's Hospital Colorado,
Anschutz Medical Campus,
Aurora, Colorado, USA

Guillermo Bolaños Ventura, MD;
Center for Human Development,
FUNSALUD, Center for
Global Health,
Retalhuleu, Guatemala

Child Neurology Telehealth Special Interest Group: Current Landscape and Future Directions

Charuta Joshi, MBBS

3:30 PM – 5:45 PM

JUNIOR MEMBER SEMINAR: International Clinical Research Consortia in Child Neurology: Get Involved!

Course Description:

The main objectives of this session are to demonstrate the benefit and need for international pediatric clinical trial consortia and how to engage with international clinical research consortia in child neurology. Content is geared to both "site" or local principal investigators (PIs) and consortium PIs, regardless of geographic location. Perspectives from consortium PIs, site/local PIs, and institutions will be presented.

Learning Objectives:

1. Gain a better understanding of the benefit and need for international pediatric clinical trial consortia.
2. Join and support an ongoing an international clinical research consortium in child neurology.

Impact Statements:

1. Joining and supporting an international clinical research consortium in child neurology.
2. Seeking institutional and financial support for an international clinical research consortium in child neurology.

Organizer:

Adam L. Hartman, MD, FAAP,
FANA, FAES; National Institute of
Neurological Disorders & Stroke
Neuroscience Center,
Rockville, Maryland USA

Introduction

Adam L. Hartman, MD, FAAP,
FANA, FAES

IPSS: Collaboration on Pediatric Stroke in 25 Countries

Heather J. Fullerton, MD, MAS;
University of California,
San Francisco,
San Francisco, California, USA

The Institutional Perspective on International Research Consortia

Edwin Trevathan, MD, MPH;
Vanderbilt University
Medical Center,
Nashville, Tennessee, USA

Understanding the Etiology and Pathogenesis of Nodding Syndrome in Eastern Africa

Richard Idro, MMED, PhD;
Makerere University,
Kampala, Uganda

Question & Answer

3:30 PM – 5:45 PM

**CHILD NEUROLOGY
FOUNDATION SYMPOSIUM:
Shortening the Diagnostic
Odyssey in Children with
Neurologic Conditions**

Course Description:

This symposium will bring together medical professionals, families and advocates from around the world to discuss ways to shorten the diagnostic odyssey in children with neurologic conditions. On average, it takes five years to diagnose a rare disease. This is frustrating for both family and healthcare providers as it is critical, and sometimes lifesaving, to get to a diagnosis and begin making informed decisions about next steps in care for the child. During this session, participants will receive an overview of the current perspective, of families and professionals, on the challenges of getting to a diagnosis. The symposium will include speakers who share information on both low-tech and high-tech tools to accelerate the diagnostic journey. Participants will discuss the available tests and screens as well as how to best access and utilize these tools. We will also share information on best collaborate with families during the diagnostic process.

Two Learning Objectives:

1. Identify the different types of tools available for diagnosing children with neurologic differences.
2. Identify the key elements of collaborating with families and mobilizing energy to use resources effectively.

Two Impact Statements:

1. Developing a more effective protocol to utilize the appropriate tests and screeners for children in search of a diagnosis.
2. Improving communication and collaboration with families to shorten the diagnostic journey.

Organizer:

Child Neurology Foundation
Scott L. Pomeroy, MD, PhD;
Harvard Medical School,
Boston Children's Hospital,
Boston, Massachusetts, USA

Welcome and Assessment Results

Scott L. Pomeroy, MD, PhD;
Harvard Medical School,
Boston Children's Hospital,
Boston, Massachusetts, USA

**Family Perspective/Hope
for Diagnosis and Possibly
Precision Treatment**

E. Gay Grossman, Patient Advocate,
Co-Founder ADCY5.org,
San Diego, California, USA

**Family Support Through
Multidisciplinary
Programs/Genetic Counseling**

Beth Rosen Sheidley, MS, CGC;
Boston Children's Hospital,
Boston, Massachusetts, USA

Historical view of the evaluation of neurologic disorders. The impact of genetic progress and shift in diagnostic approach to genetics viewed from the perspective of neuromuscular disorders; solving the unsolved, implications for treatment.

James Dowling, MD, PhD;
Hospital for Sick Children,
Toronto, Ontario, Canada

How to address disorders where the differential diagnosis includes genetic and non-genetic causes, from the perspective of epilepsy. Role of imaging, role of genetics, progress and shift in diagnostic approach, evolving implications for treatment, role of community engagement.

Ingrid E. Scheffer, AO, MBBS;
The University of Melbourne,
Austin Health and Royal
Children's Hospital,
Heidelberg, Victoria, Australia

**Rare Neurological Diseases -
Taking an Undiagnosed
Diseases Network Model**

Panel Discussion

- James Dowling, MD, PhD
- E. Gay Grossman, Patient Advocate
- Annapurna Poduri, MD, MPH;
Boston Children's Hospital,
Harvard Medical School,
Boston, Massachusetts, USA
- Scott L. Pomeroy, MD, PhD
- Ingrid E. Scheffer, AO, MBBS
- Beth Rosen Sheidley, MS, CGC

Close

Scott L. Pomeroy, MD, PhD;
Harvard Medical School,
Boston Children's Hospital,
Boston, Massachusetts, USA

Friday, October 16 • continued

3:30 PM – 5:45 PM

MEET THE EXPERTS: MOVEMENT DISORDERS: Tics, Stereotypies, and Their Look-a-Likes – Understanding and Managing Repetitive Movements

Course Description:

This Meet the Experts Interest Group session will address tics, stereotypies, psychogenic mimics, and similar-appearing movements. The presenters will share their clinical experience on use of key diagnostic features from home videos and in-person neurological evaluations in order to distinguish challenging cases. They will also share the latest research and neurobiological advances regarding the pathophysiology and treatment of these conditions.

Learning Objectives:

1. Use clinical skills to accurately distinguish tics and stereotypies from “mimics” including drug-induced and functional movement disorders.
2. Discuss recent advances in understanding of neurobiology of tics, stereotypies, and functional movement disorders.

Impact Statements:

1. More accurate diagnosis based on phenomenology without medical diagnostic testing
2. Implementation of treatment strategies starting with effective communication of diagnoses and treatment options to caregivers

Organizer:

Donald L. Gilbert, MD, MS;
Cincinnati Children’s Hospital
Medical Center,
Cincinnati, Ohio, USA

Mimics – Functional (Psychogenic), Drug-induced, and Otherwise

Donald L. Gilbert, MD, MS

Stereotypy Phenomenology and Pathophysiology

Harvey S. Singer MD;
Johns Hopkins Medicine,
Kennedy Krieger Institute,
Baltimore, Maryland, USA

Tic Phenomenology and Pathophysiology

Russell Dale, MRCP, PhD;
Children’s Hospital at Westmead,
University of Sydney,
Sydney, NSW, Australia

6:00 PM – 8:15 PM

JUNIOR MEMBER SEMINAR: Choosing Your Career Track – Academic, Private Practice, and NGOs

Course Description:

This session will discuss diverse choices in building a career post-training in child neurology. Three different career paths will be discussed:

1. Academic/research careers – how to interact with chairs, apply for jobs, negotiate time for research or education
2. Private practice – how to find a good practice, tips towards starting your clinical career and negotiating for dedicated time for your clinical interests
3. NGO and governmental jobs (i.e. CDC) – how to pursue a non-traditional career path and interact with multiple governmental associations and industry resources outside of the traditional clinical setting.

These sessions include speakers that are early career investigators at the NIH, public health officials working for the department of defense, and physicians in private practice. Speakers will discuss options available for junior child neurologists in building bridges to various research funding entities, carving out a subspecialty interest within a group practice, as well as pursuing governmental careers in the translation of scientific advances to the field.

Learning Objectives:

1. Identify distinct career options following training.
2. Successfully transition into a long career role that best suits their career needs.

Impact Statements:

1. Pursue as a child neurology attending.
2. Identify clear steps to continue on my career trajectory and achieve my long-term career goals.

Organizer:

Payal Patel, MD;
Seattle Children’s Hospital,
Seattle, Washington, USA

The Academic Track

Naila Makhani, MD, MPH;
Yale University,
New Haven, Connecticut, USA

The Private Practice Track

Doug Smith, MD;
Minnesota Epilepsy Group,
St. Paul, Minnesota, USA

The Off-the-Beaten-Path Track, Working in Government

Ana-Claire Meyer, MD, MSHS;
US Army Medical Research and
Development Command,
Fort Detrick, Maryland, USA



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At Eisai, everything we do is guided by a simple principle: patients and their families come first. We spend time with them. We listen and we learn about their lives, their desires and their greatest needs. *We call this human health care or hhc*, giving first thoughts to patients and their families and helping increase the benefits health care provides.

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**16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting**

Monday, October 19

7:00 AM – 3:30 PM

**SYMPOSIUM I: NEUROBIOLOGY
OF DISEASE IN CHILDREN (NDC):
Traumatic Brain Injury (TBI)**

Course Description:

Traumatic brain injury (TBI) takes an enormous toll on the developing nervous system. NDC 2020 will focus on the topic including a description of clinical features, pathogenesis and its management, as well as identifying future research directions. TBI not only contributes to high levels of childhood mortality but also considerable morbidity demanding the expertise of child neurologists at diagnosis and in follow-up, impacting learning and well-being.

Learning Objectives:

1. To recognize the spectrum of clinical presentations and complications arising from traumatic brain injury in children.
2. To learn of latest developments in the field and how best to manage resulting neurological complications

Impact Statements:

1. To have a deeper understanding of key concepts that enables cutting edge management in one's practice soon after injury and in follow-up.
2. To serve as an advocate for prevention of TBI and to educate others about emerging concepts in care and management.

Organizer:

Bernard L. Maria, MD, MBA,
Goryeb Children's Hospital,
Morristown, New Jersey, USA

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



7:00 AM – 7:15 AM

**OPENING COMMENTS/
INTRODUCTION**

Bernard L. Maria, MD, MBA

7:15 AM – 9:15 AM

**SESSION I:
Clinical Aspects and Diagnosis**

Moderator:

Christopher C. Giza, MD;
UCLA – Mattel Children's Hospital,
Los Angeles, California, USA

7:15 AM – 7:25 AM

**OVERVIEW OF
CLINICAL ASPECTS**

Christopher C. Giza, MD

7:25 AM – 7:50 AM

EPIDEMIOLOGY OF PEDIATRIC TBI

Alcy R. Torres, MD;
Boston University School of
Medicine, Boston Medical Center,
Boston, Massachusetts, USA

7:50 AM – 8:15 AM

**SEVERE TBI AND NEUROCRITICAL
CARE MONITORING**

Mark Wainwright, MD, PhD;
Seattle Children's Hospital,
University of Washington,
Seattle, Washington, USA

8:15 AM – 8:40 AM

**SIDELINE ASSESSMENT OF
CONCUSSION IN SPORT**

Javier Cárdenas, MD;
Barrow Concussion &
Brain Injury Center,
Barrow Neurological Institute,
Phoenix, Arizona, USA

8:40 AM – 9:05 AM

**CLINICAL EVALUATION OF
PEDIATRIC CONCUSSION
AND MILD TBI**

Sean Rose, MD;
Nationwide Children's Hospital,
Columbus, Ohio, USA

9:05 AM – 9:15 AM
QUESTION AND ANSWER SESSION

BREAK

9:30 AM – 11:20 AM
SESSION II: PATHOGENESIS

Co-Director and Moderator:
Mayumi Prins, PhD;
Brain Injury Research Center,
University of California
Los Angeles,
Los Angeles, California, USA

9:30 AM – 9:55 AM
OVERVIEW OF PATHOBIOLOGY OF TBI
Mayuni Prins, PhD

9:55 AM – 10:20 AM
SEX DIFFERENCES IN TBI
Meeryo Choe, MD;
UCLA Mattel Children's Hospital,
Los Angeles, California, USA

10:20 AM – 10:45 AM
ADVANCED NEUROIMAGING IN TBI
Emily Dennis, PhD;
University of Utah,
School of Medicine,
Salt Lake City, Utah, USA

10:45 AM – 11:10 AM
GENETIC AND MOLECULAR MARKERS FOR TBI
Christopher C. Giza, MD

11:10 AM – 11:20 AM
QUESTION AND ANSWER SESSION

BREAK

12:25 PM – 3:00 PM
SESSION III: TREATMENT AND MANAGEMENT

Co-Director and Moderator:
Lucia Braga, Neuroscientist, PhD;
SARAH Network of
Rehabilitation Hospitals,
Brasilia, Brazil

12:25 PM – 12:50 PM
POST-TRAUMATIC SEIZURES, BIOMARKERS, AND EPILEPSY
Adam Numis, MD;
UCSF-Benioff Children's Hospital,
University of California
San Francisco,
San Francisco, California, USA

POST-TRAUMATIC HEADACHE AND MIGRAINE
Heidi K. Blume, MD, MPH;
Seattle Children's Hospital,
University of Washington,
Seattle, Washington, USA

1:15 PM – 1:40 PM
EXERCISE AND CONCUSSION
John Leddy, MD;
Jacobs School of Medicine,
Buffalo, New York, USA

1:40 PM – 2:05 PM
REHABILITATION FROM PEDIATRIC MODERATE-SEVERE TBI
Lucia Braga, Neuroscientist, PhD;
SARAH Network of
Rehabilitation Hospitals,
Brasilia, Brazil

2:05 PM – 2:30 PM
TRANSCRANIAL STIMULATION AND RECOVERY
Karen M. Barlow, MBChB,
MRCPCH(UK), FRACP;
University of Queensland,
Brisbane, QLD, Australia

2:30 PM – 2:55 PM
SPORTS AND RECREATION IN CHILDREN WITH NEURODEVELOPMENTAL DISORDERS
Rujuta B. Wilson, MD;
UCLA David Geffen
School of Medicine,
Los Angeles, California, USA

2:55 PM – 3:25 PM
SESSION IV: FUTURE DIRECTIONS & QUESTION AND ANSWER SESSION

Moderator:
Bernard L. Maria, MD, MBA

Panelist:

- Christopher C. Giza, MD
- Mayumi Prins, PhD
- Karen Barlow, MBChB, MRCPCH(UK), FRACP
- Lucia Braga, Neuroscientist, PhD
- NINDS or NCI Program Officer

3:25 PM – 3:30 PM
CLOSING COMMENTS
Bernard L. Maria, MD, MBA

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16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting

Tuesday, October 20

6:00 AM – 6:55 AM

JOHN STOBO PRITCHARD

AWARD LECTURE:

Developmental and Epileptic Encephalopathies: What We Know and What We Do Not Know

Nicola Specchio, MD, PhD,
Bambino Gesù' Children's Hospital,
IRCCS, Rome, Italy

Course Description:

To review the evolution of the concept of Epileptic Encephalopathy (EE) during the course of past years and analyze how the current definition might impact on both clinical practice and research. Developmental delay in children with epilepsy could be the expression of the etiology, consequence of intense epileptiform activity (seizures and EEG abnormalities), or due to the combination of both factors. Therefore, the current ILAE classification identified three electro-clinical entities that are those of Developmental Encephalopathy, Epileptic Encephalopathy, and Developmental and Epileptic Encephalopathy (DEE). Many biological pathways could be involved in the pathogenesis of DEEs. DNA repair, transcriptional regulation, axon myelination, metabolite and ion transport, and

peroxisomal function could all be involved in DEE. Also, epilepsy and epileptiform discharges might impact on cognition via several mechanisms, although they are not fully understood. The correct and early identification of an etiology in DEE might increase the chances of a targeted treatment regimen. Interfering with neurobiological processes of the disease will be the most successful way in order to improve both the cognitive disturbances and epilepsy that are the key features of DEE.

Learning Objectives:

1. Correctly define early onset severe epilepsies distinguishing conditions where epilepsy and epileptiform abnormalities are responsible for the cognitive decline from conditions where the etiology is the major player in the cognitive dysfunctions.
2. Be updated regarding new neurobiological processes of genetic origin which are responsible of developmental and epileptic encephalopathy.

Impact Statements:

1. Diagnoses different types of developmental and epileptic encephalopathy
2. Improve their knowledge on specific etiologies and targeted therapies in developmental and epileptic encephalopathies

7:00 AM – 7:55 AM

BERNARD SACHS

AWARD LECTURE:

Genes as a Window into the Developing Brain

Joseph G. Gleeson, MD;
University of California San Diego,
Rady Children's Institute for
Genomic Medicine,
San Diego, California, USA

Course Description:

Discuss causes of childhood neurological conditions including intellectual disability, autism spectrum disorder and brain dysplasia. Focus on developing an approach towards genetic investigation based upon clinical presentation and family history and developing pathways towards new treatments.

Learning Objectives:

1. Differentiate between dominant, recessive, de novo, somatic, and complex modes of inheritance.
2. Understand differences between gene testing strategies and their power to detect genetic mutations that can determine underlying signs and symptoms.

Impact Statements:

1. Approaches and limitations in evaluating children with neurodevelopmental disease for underlying genetic causes to enable more definitive genetic diagnoses,
2. Approaches to selecting targeted therapies for specific mutations using antisense oligonucleotides.

10:30 AM - 12:45 PM

**SYMPOSIUM:
NEUROIMMUNOLOGY:
International Consensus
Opinions in Opsoclonus-
Myoclonus-Ataxia Syndrome**

Course Description:

The objectives of this symposium on opsoclonus-myoclonus-ataxia syndrome (OMAS) are to provide participants with up-to-date consensus opinions from a collaborative international OMAS study group. Attendees will learn current epidemiology, diagnostic criteria, biological mechanisms of disease, optimal treatment, and long-term outcomes.

Learning Objectives:

1. Explain cardinal presenting features, ratings scales, and the clinical course of opsoclonus-myoclonus-ataxia syndrome (OMAS)
2. Apply common evaluation and treatment practices for patients with OMAS

Impact Statements:

1. The recognition and initial evaluation of children with opsoclonus-myoclonus-ataxia syndrome.
2. The use of immunomodulatory agents in the early course of and long-term follow-up of opsoclonus-myoclonus-ataxia syndrome.

Organizer:

Tim Lotze, MD;
Baylor College of Medicine,
Texas Children's Hospital,
Houston, Texas, USA

Introduction:

Tim Lotze, MD

**Consensus Recommendations
for the Evaluation and Treatment
of Opsoclonus-Myoclonus-
Ataxia Syndrome**

Mark Gorman, MD,
Boston Children's Hospital,
Boston, Massachusetts, USA

**Recognized Etiologies and
Emerging Biomarkers in
Opsoclonus-Myoclonus-
Ataxia Syndrome**

Russell Dale, MRCP, PhD;
Children's Hospital at Westmead,
University of Sydney,
Sydney, NSW, Australia

**Cardinal Presenting Features,
Rating Scales, and the Clinical
Course of Opsoclonus-
Myoclonus-Ataxia Syndrome**

Ming Lim, MD, PhD;
Evelina London Children's Hospital,
King's Health Partners Academic
Health Science Centre,
London, United Kingdom

**Short and Long-term
Neurodevelopmental Outcomes
in Opsoclonus-Myoclonus-
Ataxia Syndrome**

Wendy G. Mitchell MD;
Keck School of Medicine,
Children's Hospital Los Angeles,
Los Angeles, California, USA

TOGETHER • APART
virtual2020

OCTOBER 12-23, 2020

10:30 AM – 12:45 PM

**SYMPOSIUM: STROKE:
PEDIATRIC STROKE:
Hot Topics, Global Challenges**

Course Description:

Our aim is to provide practical updates and strategies to address the most pressing and controversial issues related to pediatric stroke. A focus on infectious/inflammatory mechanisms and acute management will emphasize practical clinical issues combined with distinct but universal considerations of mechanism. Speakers will be experts within an emerging childhood cerebrovascular disease global network and will address the challenges of stroke management in resource-limited settings.

Learning Objectives:

1. Approach the acute management of a child with stroke with confidence based on modern evidence-based best clinical practice, and
2. Appreciate the possible roles of specific infections and inflammation in the pathogenesis of childhood arterial ischemic stroke and resultant treatment implications.

Impact Statements:

1. Evaluating children for infectious causes of stroke.
2. Offering children hyperacute stroke therapy.

Organizer:

Adam Kirton, MD;
University of Calgary,
Calgary, Alberta, Canada

***Acute Stroke Management in
Children: An Overview with a
Global Perspective***

Mark MacKay, MBBS, PhD;
Royal Children's Hospital,
Melbourne, Australia

***Pilipino Perspective on
Pediatric Stroke: Differences in
Etiologies and Management***

Marilyn Tan, MD, FCNSP, FPNA,
FPPS; University of the Philippines,
Philippine General Hospital,
Manila, Philippines

***African Perspective on Pediatric
Stroke: Stroke in Children with HIV***

Alvin Ndondo, MBChB, FCPaed
(SA); Red Cross War Memorial
Children's Hospital,
University of Cape Town,
Cape Town, Western Cape Province,
South Africa

***Infectious Mechanisms of
Childhood Arterial Ischemic
Stroke: Overview and Update on
New Global Efforts***

Heather J. Fullerton, MD, MAS;
University of California,
San Francisco,
San Francisco, California, USA

1:00 PM – 3:15 PM

**SYMPOSIUM:
NEURO-ONCOLOGY:
PEDIATRIC MIXED
NEURONAL-GLIAL TUMORS:
New Classifications, Molecular
Understandings and Targeted
Therapy**

Course Description:

Pediatric mixed neuronal-glial tumors are an increasingly recognized subtype of childhood brain tumors (BTs), frequently causing seizures. The most recent WHO classification of pediatric BTs identifies 13 different neuronal-glial tumor types. Over the past decades there has been an explosion of knowledge concerning their molecular makeup, with the majority having distinct molecular signatures. This session will review the clinical, radiographic, histopathologic and molecular aspects of neuronal-glial BTs and closely aligned low-grade gliomas and summarize new data concerning the effectiveness of novel molecular targeted approaches.

Learning Objectives:

1. To inform attendees of the new understandings of the molecular constitution of pediatric neuronal-glial BTs and closely aligned pediatric gliomas, so as to better direct therapies.
2. To summarize the potential molecular therapies available for pediatric neuronal-glial BTs and how such therapy can dramatically affect outcome; the potential toxicities of these new agents will also be discussed.

Impact Statements:

1. Understand the molecular differences between the different subtypes of pediatric low-grade neuronal-glial tumors and how these differences affect management and prognosis
2. Understand the potential new therapies available for these lesions, the indications for molecular-targeted therapy and the common side effects of such treatment.

Organizer:

Roger J. Packer, MD;
Children's National Hospital,
Washington, DC, USA

***Neuroradiographic Features of
Pediatric Neuronal-Glial Tumors***

Gilbert Vézina, MD, FACR;
Children's National Hospital,
Washington, DC, USA

***Histologic and Histoimmunologic
Classification of Pediatric
Mixed Neuronal-Glial Tumors***

Brent Orr, MD, PhD;
St. Jude's Children's
Research Hospital,
Memphis, Tennessee, USA

Molecular Classification and Resultant Therapeutic Implications of Pediatric Mixed Neuronal-Glial Tumors

David T. W. Jones, PhD;
Hopp Children's Cancer Center,
Heidelberg, Germany

New Understandings and Molecular-Targeted Therapies for Pediatric Neuronal-Glial Tumors

Roger J. Packer, MD

3:30 PM – 5:45 PM

**SYMPOSIUM:
NEUROMUSCULAR DISEASE:
Advances in Pediatric
Charcot-Marie-Tooth Disease**

Course Description:

Charcot-Marie-Tooth disease (CMT) is a heterogeneous group of peripheral nerve diseases and it is the most prevalent genetic neuromuscular disease caused by mutations in more than one hundred various genes. The onset of disease often falls into the pediatric age group and may lead to significant disability. The Symposium will provide many updates regarding the causes of CMT, and will discuss validated assessment tools as well as new therapeutic approaches:

1. The genetic basis of various forms of CMTs including novel rare forms will be presented. A rational strategy for genetic testing will be provided.
2. New developments in standardized clinical evaluation tools (CMPTPeds, CMTInf) will be discussed. These tools are employed for natural history data collection in pediatric CMT and they may serve as outcome measures in emerging treatment trials.

3. Electrophysiology evaluation continues to be important in differential diagnosis of various CMTs from other types of neuropathies, moreover some parameters like CMAP may serve as biomarkers in clinical trial. Quantitative muscle MRI techniques are emerging as potential biomarkers along with some other biological measurements.
4. In vitro disease models and transgenic animal research are aimed at understanding the molecular pathology of CMTs leading to developments of new therapeutic targets.

Learning Objectives:

1. Learn about the genetic causes of CMT and acquire validated evaluation tools that can be used neuromuscular clinics.

Impact Statements:

1. Will help the audience to learn about proper diagnostic strategies, which could make their neuromuscular practice more efficient. Employing the validated functional assessment tools will make the long term progression of CMT more accurate to assess.

Organizer:

Gyula Acsadi MD, PhD;
Connecticut Children's Medical
Center, University of Connecticut
School of Medicine,
Farmington, Connecticut, USA

Introduction to Charcot-Marie-Tooth Disease (CMT)

Gyula Acsadi MD, PhD

Genetic Basis of Charcot-Marie-Tooth Disease (CMT)

Shawna Feely, MS, LGC;
University of Iowa
Hospitals & Clinics,
Iowa City, Iowa, USA

Validated Assessment Tools in Natural History for CMT

Timothy Estilow OTR/L;
The Children's Hospital
of Philadelphia,
Philadelphia, Pennsylvania, USA

Electrophysiology and Biomarkers

Richard A. Lewis, MD;
Cedars-Sinai Medical Center,
Los Angeles, California, USA

Molecular Basis of CMTs and Cellular Drug Targets

Mario Saporta, MD, PhD, MBA,
FAAN, University of Miami,
Miami, Florida, USA

3:30 PM – 5:45 PM

**SYMPOSIUM:
NEONATAL SEIZURES:
Practical Approaches to
Classification, Diagnosis
and Management**

Course Description:

The educational objective of this symposium is to present key findings from the International League Against Epilepsy's Task Force on the Classification, Diagnosis and Treatment of Neonatal Seizures. Speakers will emphasize key concepts and management strategies that can be applied across a variety of practice settings, including resource-limited locations.

Learning Objectives:

1. Accurately diagnose and classify neonatal seizures using clinical signs, amplitude-integrated EEG and conventional EEG, and assign a level of certainty to their diagnosis.
2. Apply current evidence to optimally manage neonatal seizures across a wide range of practice settings.

Learner Outcomes:

This education workshop helped me to identify changes I could make in my practice related to:

1. Recognizing when to suspect neonatal seizures and how to confirm the diagnosis using available resources.
2. Managing neonatal seizures in an evidence-based fashion.

Organizer:

Courtney J. Wusthoff, MD;
Stanford University,
Stanford, California, USA

**Definition and Classification
of Neonatal Seizures:
Insights from the ILAE Task Force**

Ronit Pressler, MD, PhD;
Great Ormond Street
Hospital for Children,
London, UK

**Diagnosis of Neonatal Seizures
by Clinical Signs, Amplitude-
Integrated EEG and
Conventional EEG**

Cecil D. Hahn, MD, MPH;
The Hospital for Sick Children,
University of Toronto,
Toronto, Ontario, Canada

**Treatment of Neonatal Seizures
Informed by Current Evidence**

Hans Hartmann, MD;
Hannover Medical School,
Clinic for Pediatric Kidney,
Liver and Metabolic Diseases,
Hannover, Germany

**Management of Neonatal Seizures
in Resource-Limited Settings**

Jo M. Wilmshurst, MB, BS, MD,
Red Cross War Memorial Children's
Hospital, University of Cape Town,
Cape Town, Western Cape,
South Africa

6:00 PM – 8:15 PM

**SYMPOSIUM:
NEUROINFECTIOUS DISEASE:
Tropical Infections of the CNS:
A Worldwide Problem**

Course Description:

Globalization, communications, and technology, have improved the mobility of populations around the world. Infectious diseases previously limited to specific geographic areas are no longer restricted to their geographic location or origin. Due to immigration and the popularity of international travel, patients affected by infectious diseases including malaria, tuberculosis, zika, dengue, chikungunya, and Ebola can be found anywhere in the world. These infections may have devastating consequences for both individuals and society, especially if clinicians are not aware of them and do not consider them in their differential diagnosis. Important advances have been made in both diagnosis and treatment of many of these infectious diseases. In this symposium we will:

- An update in clinical care, diagnosis and research in some of the most frequent and lethal infection diseases affecting CNS, like TB and Malaria,
- Discuss the acute neurological manifestations associated with Arbovirus infections,
- Understand implementation challenges for clinical trials conducted in Low and Middle Income Countries investigating new therapeutic modalities for tropical central nervous system infectious diseases

Learning Objectives:

1. To learn to identify some of the most common tropical neurological infectious diseases and how to establish the proper, diagnosis and treatment.
2. To learn about the neurological manifestations of acute infections for arbovirus.

Impact Statements:

1. This educational session helped me to identify changes I could make in my practice related to identify some of the most common tropical neurological infectious diseases and how to establish the proper, diagnosis and treatment.
2. This educational session helped me to identify changes I could make in my practice related to learn about the neurological manifestations of acute infections for arbovirus.

Organizer:

Maria Teresa Acosta, MD;
National Human Genome
Research Institute, National
Institutes of Health,
Bethesda, Maryland, USA

Co-Organizer:

Alfredo Cerisola, MD;
University of the Republic,
Uruguay

CNS Tuberculosis: Recent Concepts in Diagnosis and Treatment

Pratibha Singhi MBBS, MD, FIAP,
FNAMS; Medanta, The Medicity,
Gurgaon, Haryana, India, Post
Graduate Institute of Medical
Education and Research
Chandigarh, India

Cerebral Malaria: Recent Concepts in Diagnosis and Treatment

Charles Newton, MD;
University of Oxford, Oxford,
United Kingdom, KEMRI-Wellcome
Trust Collaborative Programme,
Kilifi, Kenya

Dengue, Zika and Chikungunya: Acute Neuroinfections

Marco T. Medina, Chevalier, FAAN;
National Autonomous
University of Honduras,
Tegucigalpa, Honduras

Clinical Trials in Tropical Infections: Challenges and Successes

Douglas G. Postels, MD, MS;
Children's National Medical Center,
George Washington University,
Washington, DC, USA

6:00 PM – 8:15 PM

SYMPOSIUM: MOVEMENT DISORDERS: Lessons from Tourette Syndrome – Better Understanding of the Development of the Child Brain**Course Description:**

Lessons learned from this symposium about Tourette syndrome include comorbid disorders sometimes being more impairing than tics alone and how to avoid time-wasting and disappointed regimens. This symposium will give audience a better understanding of the development of the child brain. Changing life style may help a lot. Otherwise, deep brain stimulation may improve those refractory patients.

Learning Objectives:

1. Learn the whole scope of clinical manifestations of Tourette syndrome (TS), not just tics alone.
2. Apply non-pharmacological and pharmacological managements appropriately, and the role of deep brain stimulation in refractory TS.

Impact Statements:

1. Try non-pharmacological management and appropriate medicine for children with Tourette syndrome; and deep brain stimulation perhaps another choice for refractory patients.
2. Avoid many irrelevant alternatives.

Organizer:

Huei-Shyong Wang, MD;
Chang Gung Children's Hospital,
Chang Gung University,
Taoyuan, Taiwan

Beneath the Tip of the Iceberg: Comorbidities of Tourette Syndrome

Jennifer Vermilion, MD,
University of Rochester,
Rochester, New York, USA

Non-Pharmacological Management: Anti-Boring Lifestyles for Children with Tourette Syndrome

Huei-Shyong Wang, MD

Pharmacological Therapy for Tourette Syndrome: What Medicines Can Do and Cannot Do

Yoshiko Nomura, MD PhD;
Yoshiko Nomura Neurological
Clinic for Children,
Tokyo, Japan

Deep Brain Stimulation in Tourette Syndrome

Jonathan W. Mink, MD, PhD;
University of Rochester,
Rochester, New York, USA

Tuesday, October 20 • continued

6:00 PM – 8:15 PM

SYMPOSIUM: EPILEPSY: Infantile Spasms – Current Management – A Global Perspective; The Way Forward

Course Description:

This symposium will deal with an important epileptic encephalopathy ie Infantile Spasms. Even Infantile Spasms constitute the commonest devastating infantile epilepsy worldwide, there is a wide variability in their etiology, clinical spectrum, and diagnostic and management protocols across the world. Despite some large clinical trials, several challenges and uncertainties continue to exist. There is lack of consensus even among experts as to what exactly constitutes hypersarrhythmia, and the certainty with which one can diagnose infantile spasms. Also, there are several unanswered questions not only whether ACTH or oral steroids should be used, but also regarding the doses, dosing, tapering, and duration of ACTH therapy and whether synthetic and natural ACTH should be used. Similar questions also exist regarding the use of Vigabatrin, other antiepileptics, special diets and even surgery for the control of IS. In this symposium, experts from across the globe will try to address these issues in light of the current scientific evidence and present the state of art information on the subject, with a global perspective. Some new drugs in pipeline and newer ways to conduct clinical trials will also be discussed. Since children with

infantile spasms are managed not only by child neurologists, but also by paediatricians and adult neurologists in many parts of the world, this topic is relevant for all. It is hoped that it would provide current information with an international perspective and opportunities for collaborative research.

Learning Objectives:

1. Make a correct diagnosis and plan a rational evaluation of a child with suspected infantile spasms
2. Make evidence based, rational choices for the management of Infantile Spasms, keeping in mind a global perspective.

Impact Statements:

1. Making an early and correct diagnosis in a child with suspected infantile spasms.
2. Formulating appropriate management protocols for children with infantile spasms.

Organizer:

Pratibha Singhi MBBS, MD, FIAP, FNAMS; Medanta, The Medicity, Gurgaon, Haryana, India, Post Graduate Institute of Medical Education and Research, Chandigarh, India

Infantile Spasms: Peculiarities and Challenges in Resource Limited Countries; Role of ACTH, Steroids, and Other Antiepileptic Drugs
Pratibha Singhi, MBBS, MD, FIAP, FNAMS

Evaluation of Infantile Spasms – Role of Genetics; Approach to a Child with IS in Japan
Shinichi Hirose, MD, PhD;
Fukuoka University,
Fukuoka, Japan

Diagnosis and Management of Infantile Spasms in the USA – New Drugs in the Pipeline; What is the Way Forward?
Shaun Hussain, MD, MS;
University of California
Los Angeles,
Los Angeles, California, USA

Infantile Spasms – Concepts and Differential Diagnosis; the European Approach Towards Management
Alexis Arzimanoglou, MD;
University Hospitals of Lyon,
Lyon, France and Children's
Hospital San Juan de Dios,
Barcelona, Spain



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**16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting**

Wednesday, October 21

6:00 AM – 6:55 AM

**SHEILA WALLACE
AWARD LECTURE:**

**Dietary Therapies for Epilepsy
in Low Resource Settings:
Challenges and Successes**

Suvasini Sharma, MD, DM;
Lady Hardinge Medical College
and Associated Kalawati
Saran Children's Hospital,
New Delhi, India

Course Description:

I have been working in the field of Dietary therapies of childhood epilepsy for the last 15 years. I will share my experience with the use of ketogenic diets and its modifications in India. I work in a low resource setting, and in a cultural milieu which is very unfamiliar with ketogenic diet. In this talk, I will discuss the challenges faced by pediatric neurologists and parents who wish to use the diet in children with refractory epilepsy; and how we have used simple low cost innovations to overcome these challenges. We have evolved from the use of the classic ketogenic diet to the flexible use of the modified Atkins diet, which we have demonstrated to be efficacious in randomized controlled trials.

Learning Objectives:

1. Understand the problems faced in low resource settings, for prescribing and administering dietary therapies for refractory childhood epilepsy.
2. Learn strategies for low cost delivery of the diet in resource constrained and underprivileged populations.

Impact Statements:

1. Consider and offer the option of ketogenic diet if medically indicated, even in low socioeconomic populations, if the caregivers are motivated.
2. Use simple and flexible approaches to the use of the ketogenic diet for low resource settings

7:00 AM – 7:55 AM

**PHILIP R. DODGE
YOUNG INVESTIGATOR
AWARD LECTURE:**

**The Impact of Serendipity:
From "Rare" Neurodevelopmental
Disorders to Common Insights**

Hsiao-Tuan Chao, MD, PhD;
Baylor College of Medicine,
Houston, Texas, USA

Course Description:

Discuss genetic, cellular, and neural circuit mechanisms underlying neurodevelopmental conditions characterized by autism, intellectual disability, and epilepsy. Focus on integrating multidisciplinary approaches in model organisms including fruit flies and mice with genetic investigation based on clinical findings.

Learning Objectives:

1. Recognize how the identification and study of the genetic underpinnings of "rare" disorders can uncover biological pathways shared with more common conditions.
2. Understand the application of functional studies in fruit fly and mouse model organisms and their power to reveal pathogenic gene alterations and underlying disease mechanisms.

Impact Statements:

1. Approaches and limitations in the evaluation, diagnosis, and prognosis of children with neurodevelopmental disorders.
2. Approaches to identifying genetic etiologies underlying neurodevelopmental disorders.

10:30 AM - 12:45 PM

**SYMPOSIUM: NEUROGENETICS:
Current Status of
Developmental Encephalopathies:
Rett Syndrome, MECP2
Duplication Disorder, CDKL5
Deficiency Disorder, and
FOXP1 Disorder**

Course Description:

- To understand the recent advances in the developmental encephalopathies, namely, Rett syndrome, MECP2 Duplication Disorder, CDKL5 Deficiency Disorder and FOXP1 Disorder through comparison of the important similarities and critical differentiating features of this expanding group of neurodevelopmental disorders;
- To understand the phenotype-genotype relationships that characterize each disorder; and
- To promote the existing and emerging clinical trials that offer the potential for disease-modifying or curative promise.

Learning Objectives:

1. To understand the recent advances in the developmental encephalopathies, namely, Rett syndrome, MECP2 Duplication Disorder, CDKL5 Deficiency Disorder and FOXP1 Disorder through comparison of the important similarities and critical differentiating features of this expanding group of neurodevelopmental disorders including clinical trajectories and phenotype-genotype correlations
2. Understand the current strategies and challenges to develop and promote clinical trials that offer the potential for disease-modifying or curative therapeutics.

Impact Statements:

1. Evaluation, diagnosis, and management of these developmental encephalopathies including directing these children to clinical centers focusing on these disorders.
2. Educate and advocate for parents and other caregivers regarding the therapeutic opportunities available or under development for these developmental encephalopathies.

Organizer:

Alan Percy, MD;
University of Alabama at
Birmingham,
Birmingham, Alabama, USA

***Rett Syndrome:
Current Status and
Therapeutic Considerations***

Jeffrey L. Neul, MD, PhD;
Vanderbilt Kennedy Center,
Nashville, Tennessee, USA

***MECP2 Duplication Disorder:
Understanding the Developmental
Trajectory and Potential Therapies***

Sarika U. Peters, PhD;
Vanderbilt University
Medical Center
Nashville, Tennessee, USA

***Recent Progress in
Genotype-Phenotype
Correlations in FOXP1 Disorder***

Knut Brockmann, MD;
Interdisciplinary Pediatric Center
for Children with Developmental
Disabilities and Severe Chronic
Disorders Children's Hospital,
University Medical Center,
University of Göttingen,
Göttingen, Germany

***Comparison of the Core
Features of the Developmental
Encephalopathies from the
Rett Natural History Study***

Eric Marsh, MD, PhD;
Children's Hospital of Philadelphia,
Perelman School of Medicine at
the University of Pennsylvania,
Philadelphia, Pennsylvania, USA

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Wednesday, October 21 • continued

10:30 AM – 12:45 PM

SYMPOSIUM:

NEUROIMMUNOLOGY:

Cutting Edge Technology in Neuroinflammation: Advancing Science and Increasing Capacity in Low and Middle-income Countries

Course Description:

This symposium will provide an overview of advanced technologies, such as metagenomic next-generation sequencing, phage display and enhanced virome sequencing, to identify evidence of infection or autoantibodies in patients with neuroinflammation such as infectious encephalitis (IE) and autoimmune encephalitis (AE). We will also discuss the high mortality and morbidity of IE and AE in low and middle-income countries (LMIC) and potential application of these technologies as well as capacity building in LMIC. Upon completion of this symposium, participants will become familiar with new technologies for pathogen and antibody discovery; understand the impact of infectious and autoimmune encephalitis in LMIC and potential usage of technology to advance science, to save brains and to build capacity in LMIC.

Learning Objectives:

1. To understand cutting edge technologies which can detect pathogens directly by sequencing-based approaches and indirectly with comprehensive serology assays, along with autoantibody discovery in patients with non-infectious encephalitis.
2. To understand the impact of infectious and autoimmune encephalitis in LMIC and possible ways to build research capacity in LMIC

Impact Statements:

1. Understanding advanced technologies in diagnosing neuroinflammatory diseases
2. Potential involvement in the global health and capacity building process

Organizer:

Soe Mar, MD;
St. Louis Children's Hospital,
Washington University
School of Medicine,
St. Louis, Missouri, USA

Technologies in LMIC, Advancing Science and Increasing Capacity

Soe Mar, MD

Decoding Neuroinflammation with Metagenomics and Phage Display

Michael Wilson, M.D, MAS;
UCSF Well Institute for
Neurosciences School of Medicine,
San Francisco, California, USA

Detecting Hidden Virus with Enhanced Human Virome Sequencing

Kristine Wylie, PhD;
Washington University
School of Medicine,
St. Louis, Missouri, USA

The Impact of Infectious and Autoimmune Encephalitis in LMIC

Aye Mya Min Aye, MB.BS, M.Med.Sc;
Yangon Children's Hospital,
Yangon, Myanmar

1:00 PM – 3:15 PM

SYMPOSIUM: COGNITIVE-

BEHAVIORAL NEUROLOGY:

The Molecular & Cellular Basis of Developmental Cognitive & Behavioral Disorders

Course Description:

- The overall educational objective of this symposium is to expose child neurologists to cutting-edge insights into the developmental roots of pediatric neurological disorders, particularly those influencing cognition, language, and behavior.
- Many disorders in child neurology – particularly those that are manifest by cognitive and behavioral dysfunction, the failure to reach developmental milestones, dysmorphisms, and congenital epilepsies – are attributable to fundamental aberrations during cerebrogenesis, whether genetic or acquired. To that extent, a child neurologist might actually be viewed as a “translational developmental biologist”. Newer insights and tools in cell and molecular biology (e.g., human induced pluripotent stem cells, genome editing, organoids, whole genome sequencing, single cell ‘omics, epigenetic modeling, live cell imaging, high-throughput high content screening, etc.), have increased our ability to understand both normal cerebrogenic processes and the types of abnormalities that might occur in those processes which might produce the disorders we, as child neurologists, treat. Although many of these insights are so new that they have not yet yielded concrete treatments, they certainly have started to suggest ways to diagnose and

stratify patients early and to offer potential drug targets. This symposium seeks to discuss some of the cutting-edge research that might yield a better understanding of the cellular and molecular basis of some categories in this class of disorders.

- The format for each of the 4 representative categories below will be as follows: (1) a 5 min. introduction to the clinical entity; (2) a 20 min. synopsis of some of the cutting-edge molecular and cellular research and/or modeling ongoing in that entity; (3) a 5 min. conclusion by the first speaker with an emphasis on the therapeutic implications of the new scientific insights.

Learning Objectives:

1. Understand how and why a particular clinical entity emerged as an aberration of normal developmental processes
2. Envision where future diagnostic and therapeutic options may lie.

Impact Statements:

1. Counseling patients and their families with regard to the cause of a disorder and the likelihood of it's being observed in future offspring or future generations
2. Explaining to families where the cutting-edge scientific understanding (based on the latest cellular and genetic techniques) lies for a particular disorder and what novel diagnostic and therapeutic options may lie ahead based on these understandings (new early tests, new drugs, new rehab strategies, etc.)

Co-Organizers:

Evan Y. Snyder MD, PhD, FAAP;
Sanford Burnham Prebys
Medical Discovery Institute,
UC San Diego School of Medicine,
San Diego, California, USA

Doris Trauner MD;
UC San Diego,
La Jolla, California, USA

Introduction

Doris Trauner MD

Genetic Epilepsy Syndromes

Annapurna Poduri, MD, MPH;
Boston Children's Hospital,
Harvard Medical School,
Boston, Massachusetts, USA

Joseph G. Gleeson, MD;
University of California San Diego,
Rady Children's Institute
for Genomic Medicine,
San Diego, California, USA

Autism

Adi Aran, MD,
Shaare Zedek Medical Center,
Hebrew University,
Jerusalem, Israel

Alysson R. Muotri, PhD;
UC San Diego School of Medicine,
San Diego, California, USA

Neuropsychiatric Disorders

Shafali Jeste, MD;
David Geffen School of Medicine,
University of California,
Los Angeles, California, USA

Evan Y. Snyder MD, PhD, FAAP

1:00 PM – 3:15 PM

**SYMPOSIUM: SLEEP:
Integrating Pediatric Sleep
Medicine into Child Neurology**

Course Description:

Better understanding of various sleep disorders encountered in the child neurology practice, how to read the sleep study report that will be generated by the sleep physician and sent to the referring child neurologist, what treatment options are available for these sleep disorders including insomnia, and finally, when these patient should be referred to a sleep physician.

Learning Objectives:

1. Incorporate better screening questions and order appropriate diagnostic tests in their evaluation of children in child neurology clinics to assess and confirm the underlying sleep disorder.
2. Initiate management strategies to treat the underlying sleep disorder

Impact Statements:

1. Diagnose and manage comorbid or primary sleep problems in child neurology
2. Appropriate referral to sleep physician

Organizer:

Sanjeev V. Kothare, MD, FAAN,
FAASM; Cohen Children's
Medical Center,
Lake Success, New York, USA

Wednesday, October 21 • continued

Evaluation of Nocturnal Events: Seizures, Parasomnias and More

Sanjeev V. Kothare, MD, FAAN, FAASM

Evaluation of a Sleepy Child

Joseph Kaleyias, MD, PhD;
East Sussex Healthcare
NHS Trust, Eastbourne,
East Sussex, England, UK

Evaluation of Sleep in Neurodevelopmental Disorders

Joanna Wrede, MD;
Seattle Children's Hospital,
University of Washington,
Seattle, Washington, USA

Sleep Pharmacology in Pediatric Insomnia

Ann Marie Morse, DO;
Geisinger Commonwealth
School of Medicine, Geisinger,
Commonwealth School of Medicine,
Geisinger Medical Center,
Janet Weis Children's Hospital,
Danville, Pennsylvania, USA

3:30 PM – 5:45 PM

SYMPOSIUM: CEREBRAL PALSY: An Open Discussion on the Definition of Cerebral Palsy

Course Description:

Participants will gain an awareness of the historical evolution of the definition of cerebral palsy including the current (2007) consensus definition. Potential amplification and clarification of this definition suggesting continuity will be presented from the perspectives of epidemiology, genomics, health care limitations, rehabilitation and the lifespan. This will frame an open discussion with parental input about what challenges may lie ahead in any modification of the established definition.

Learning Objectives:

1. Identify potential challenges to the current definition of cerebral palsy from a variety of perspectives
2. Identify more clearly children with and without cerebral palsy and those that do not fit clearly into an either-or dichotomy

Impact Statements:

1. To accurately diagnosing cerebral palsy
2. Counselling families about what a diagnosis of cerebral means and does not mean for their child

Organizer:

Michael Shevell, MDCM, FRCP, FCAHS; McGill University, Montreal Children's Hospital, Montreal, Quebec, Canada

The History of the Definition of Cerebral Palsy & Epidemiologic Considerations

Michael Shevell, MDCM, FRCP, FCAHS

The Emergence of Genomics in Cerebral Palsy and Its Potential Impact on Definition

Michael Krueer MD;
Barrow Neurological Institute,
Phoenix Children's Hospital,
Phoenix, Arizona, USA

Low Resource Settings and Defining Cerebral Palsy

Gulam Khandakar, MBBS, MPH, DCH, PhD, FAFPHM;
Central Queensland Hospital
and Health Service,
Rockhampton, Australia

Rehabilitation, Lifespan, ICF Considerations in Defining Cerebral Palsy

Annette Majnemer OT, PhD;
McGill University,
Montreal, Quebec, Canada

3:30 PM – 5:45 PM

SYMPOSIUM: EPILEPSY: Epilepsy and Psychiatric Comorbidities

Course Description:

This educational symposium has the objective to review the main psychiatric and behaviour disorders in children with epilepsy. Importantly, the symposium will focus on the difficulties of diagnosis and optimal management of ADHD, anxiety and depression in children with epilepsy.

Learning Objectives:

1. Understand the difficulties and the auxiliary tests for the diagnosis of ADHD, depression and anxiety in children with epilepsy;
2. Understand the optimal management of psychiatric and behaviour disorders in children with epilepsy.

Impact Statements:

1. The diagnosis of ADHD, depression and anxiety in children with epilepsy.
2. The optimal management of ADHD, depression and anxiety in children with epilepsy.

Organizer:

Ana Carolina Coan, MD, PhD,
Campinas University – UNICAMP,
Campinas, SP, Brazil

Epilepsy in Children – Beyond Seizure Control

Marilisa Guerreiro, MD, PhD,
Campinas University,
Campinas, Brazil

How to Differentiate ADHD from its Mimics in Children with Epilepsy?

Stéphane Auvin, MD, PhD,
Hôpital Universitaire Robert-Debré,
Université de Paris,
Paris, France

Depression and Anxiety in Children with Epilepsy – How to Improve the Diagnosis?

Kette Valente, MD, PhD,
University of São Paulo,
São Paulo, Brazil

Management of Psychiatric and Behavior Disorders in Children with Epilepsy

Kirsten A. Donald MD, PhD,
University of Cape Town,
Cape Town, South Africa

6:00 PM – 8:15 PM

**SYMPOSIUM:
GLOBAL NEUROLOGY:
Global Challenges and
Opportunities in Inpatient
Child Neurology**

Course Description:

The objective of this symposium is to highlight and understand the reasons behind the differences in management of commonly encountered pediatric neurological conditions across the globe. Discussants from three diverse settings (a resource-intense US academic medical center, a managed care non-North American but developed academic center setting, and a developing nation with limited resources) will compare and contrast their approach to three common acute neurologic conditions: status epilepticus, anti-NMDA receptor encephalitis, and stroke. After each discussant comments on the evaluation, diagnosis, and management of each condition, the

panel will have an open discussion to identify themes and practices that can be improved, barriers that could be overcome from a healthcare systems perspective and shared and implemented across international settings. The discussion will highlight the need for development of global networks and collaborations to systematically harmonize clinical care pathways as well inform the potential for research opportunities in common acute pediatric neurologic conditions.

Learning Objectives:

1. Explore and understand the approach to workup and treatment of three common acute neurologic conditions in each of the following settings: 1) Resource-intense academic medical center, 2) a managed care non-North American but developed academic center setting, and 3) Developing Nation with limited resources
2. Conceptualize how to provide high-quality, research-informed care depending on the resources available in each individual's setting.

Impact Statements:

1. The resources I have available to investigate, diagnose and manage status epilepticus.
2. The resources I have available to investigate, diagnose and manage anti-NMDA receptor encephalitis.
3. The resources I have available to investigate, diagnose and manage acute arterial ischemic stroke.

Organizer:

Mahendra Moharir MD, MSc, FRACP;
University of Toronto,
The Hospital for Sick Children,
Toronto, Ontario, Canada

Acute Pediatric Neurology in the Inpatient Setting across the Globe – Can One Size Fit All?

Mahendra Moharir MD, MSc, FRACP

Acute Inpatient Pediatric Neurology – The North American Academic Practice Perspective

Craig A. Press, MD, PhD;
Children's Hospital of Colorado,
University of Colorado School
of Medicine,
Aurora, Colorado, USA

Acute Inpatient Pediatric Neurology – The Australian Managed Care Approach

Mark MacKay, MBBS, PhD;
Royal Children's Hospital,
Melbourne, Australia

Acute Inpatient Pediatric Neurology in the Developing World – Advancing Care with Limited Resources

Vrajesh Udani, MD;
Hinduja National Hospital &
Medical Research Centre,
Mumbai, India

Panel Discussion and Q & A

Wednesday, October 21 • continued

6:00 PM – 8:15 PM

SYMPOSIUM: EPILEPSY: Ketogenic Diets in Child Neurology – A Tale of 100 Years: What Does the Future Hold?

Course Description:

As ketogenic diet completes a century of its use in child neurology, this symposium proposal will summarize the current and future perspectives of the use of ketogenic diet and its variants in epilepsy and other neurological disorders in children. The symposium will cover the recently published International consensus guidelines, the use of the diet in genetic and metabolic epilepsies, use in neurological disorders other than epilepsy, and new insights into the mechanism of action of the diet and implications for clinical utilization. The speakers include Dr Eric Kossoff (USA), Dr Helen Cross (UK), Dr Hoon-Chul Kang (South Korea) and Dr Suvasini Sharma (India). As ketogenic diet completes a century of its use in child neurology, this symposium proposal will summarize the current and future perspectives of the use

of ketogenic diet and its variants in epilepsy and other neurological disorders in children. The symposium will cover the recently published International consensus guidelines, the use of the diet in genetic and metabolic epilepsies, use in neurological disorders other than epilepsy, and new insights into the mechanism of action of the diet and implications for clinical utilization.

Learning Objectives:

1. Be aware of the recent international consensus guidelines on the use of KD, and its uses in metabolic and genetic epilepsies and non-epilepsy neurodevelopmental conditions in children.
2. Understand the current thinking on the mechanisms of action of the diet, and how we can potentially use this to optimize patient outcomes.

Impact Statements:

1. Early identification of childhood neurological conditions which are likely to respond to the ketogenic diet.
2. Awareness of the new International consensus guidelines for the use of ketogenic diet in children with epilepsy.

Organizer:

Suvasini Sharma, MD, DM;
Lady Hardinge Medical College
and Associated Kalawati Saran
Children's Hospital,
New Delhi, India

Dietary Therapy at a Century: From Popularity to Obscurity and Back Again

Eric H. W. Kossoff, MD;
Johns Hopkins Hospital,
Baltimore, Maryland, USA

Ketogenic Diet in Genetic and Metabolic Epilepsies

Puneet Jain, MD, DM;
The Hospital for Sick Children
Toronto, Ontario, Canada

New Insights into the Mechanisms of Action and Implications for Utilization

Helen Cross, MB, ChB, PhD;
University College London,
Great Ormond Street
Institute of Child Health,
London, UK

Non-epilepsy Uses and Other Benefits of the Ketogenic Diet

Suvasini Sharma, MD, DM



No-cost genetic testing to help ensure families can make informed decisions about their child's health

PTC THERAPEUTICS AND INVITAE

have partnered to provide no-cost genetic testing and counseling for individuals with symptoms of cerebral palsy (CP) with unknown etiology or suspected neurotransmitter diseases, such as Aromatic L-amino Acid Decarboxylase (AADC) deficiency.

Through PTC Pinpoint, patients can get:



No-cost genetic testing

- Neurotransmitter disorders panel
- CP spectrum disorders panel^a



Genetic counseling post testing



Family follow-up testing for relatives of those with confirmed or likely pathogenic variants

^aProgram eligibility

This program is available in the US and Canada for individuals with symptoms suggestive of cerebral palsy in the absence of risk factors for an acquired brain injury.



To learn more or order a no-cost genetic test for CP spectrum or neurotransmitter disorders, visit:

invitae.com/en/PTC-Pinpoint-CP-Spectrum ▶

or

invitae.com/en/PTC-Pinpoint ▶



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16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting

Thursday, October 22

6:00 AM – 6:55 AM

LINDA DE MEIRLEIR NEUROMETABOLIC AWARD LECTURE:

Update in Pediatric Neurometabolic Disorders 2020

Lance Rodan, MD, FRCP(C);
Boston Children's Hospital,
Harvard Medical School,
Boston, Massachusetts, USA

Course Description:

- Discussion of metabolic disease discovery in the post-genomic era: what are the tools we have?
- Discussion of metabolic pathway analysis in the discovery of future disease modifying therapies.
- Illustrative examples, through review of recently described neurometabolic disorders, including a novel disorder of cerebral folate metabolism and a disorder of polyamine metabolism, among others.

Learning Objectives:

1. Identify a number of recently described neurometabolic disorders
2. Become familiar with currently available clinical tests that can aid in the diagnosis of rare neurometabolic disorders

Impact Statements:

1. The recognition of neurometabolic disorders
2. The interpretation of metabolic test results

7:00 AM – 7:55 AM

HOWER AWARD LECTURE: Migraine, Vertigo, and Dizziness

Kenneth J. Mack, MD, PhD;
Mayo Clinic,
Rochester, Minnesota, USA

Course Description:

This session will help attendees to identify changes they could make in their practice related to addressing the multiple target symptoms of migraine, which include dizziness and vertigo.

Learning Objectives:

1. Better organize the components of the migraine attack
2. Understand the multiple forms of vertigo and dizziness that patients experience

Impact Statements:

1. Addressing the multiple target symptoms of migraine, which include dizziness and vertigo

10:30 AM – 12:45 PM

SYMPOSIUM:

NEONATAL NEUROLOGY: Neurodevelopmental Outcomes in Congenital Heart Disease: From Fetal Pathogenesis to Prevention

Course Description:

This symposium will bring participants up-to-date on the critical role of fetal risk factors for neurodevelopmental disabilities arising from congenital heart disease including the key contributions of chronic fetal hypoxemia and maternal-fetal stress. Emerging insights from fetal and neonatal human imaging and experimental models will define the impact of fetal hypoxemia on brain growth and neuronal dysmaturation. We will explore emerging potential interventions ranging from maternal-fetal hyperoxygenation to early life environmental enrichment.

Learning Objectives:

1. Recognize the spectrum of neurodevelopmental disabilities associated with various forms of congenital heart disease and their key fetal and neonatal neuroimaging findings.
2. Recognize the relative impact of pre- and postnatal factors, including maternal-fetal stress and chronic in utero hypoxemia on long-term neurodevelopmental outcomes associated with various forms of congenital heart disease

Impact Statements:

1. Counselling parents on risks for adverse neurodevelopmental outcomes associated with various forms of congenital heart disease.
2. The indications and interpretation of fetal or neonatal imaging for patients with various forms of congenital heart disease.

Organizer:

Stephen A. Back, MD, PhD,
Oregon Health & Science University,
Portland, Oregon, USA

***Pathogenetic Mechanisms
of Hypoxia-mediated
Cerebral Dysmaturation***

Stephen A. Back, MD, PhD

***Fetal Oxygenation in Utero
of Human Fetuses with
Congenital Heart Disease***

Mette Høj Lauridsen, MD, PhD;
Aarhus University Hospital,
Aarhus, Denmark

***Advanced Brain Imaging -
From Fetus to Neonate with
Congenital Heart Disease***

Serena J. Counsell, PhD;
King's College London,
London, UK

***Where to Next: Potential
Interventions from the
Fetus to the Environment***

Steven Paul Miller, MDCM, MAS,
FRCPC; The Hospital for Sick
Children, The University of Toronto,
Toronto, Ontario, Canada

10:30 AM - 12:45 PM

**SYMPOSIUM:
NEURODEVELOPMENTAL
DISORDERS:
*IN SPANISH: Beyond
Pharmacological Treatment for
Neurodevelopmental Disorders:
What Parents and Physicians
Want to Know About the
Available Options*****Course Description:**

Neurodevelopmental disorders such as ADHD, ASD and learning disabilities are the most common cause of consultation in Pediatric Neurology in all countries. While pharmacological treatment has been extensively studied, in some conditions like ADHD, the access to stimulant medications in many countries is very limited and with very selective options. In addition, the high cost of medications makes them of inaccessible for many populations around the world. In other conditions, like ASD and LD, the benefits of medications are more controversial. Non-pharmacological and alternative interventions have been used extensively around the world without clear evidence of the benefits that they can provide to patients and families. Some of these alternative interventions are more expensive and have side effects that are often not disclosed. Parents have strongly advocated for research to demonstrate the

real impact of those interventions. In this symposium we aim:

- To present an update on therapeutic alternatives, beyond pharmacological interventions, for treating neurodevelopmental disorders like ADHD, ASD and learning disabilities
- To discuss the evidence base available about the benefits of those interventions
- To present a clinical model for the care of neurodevelopmental disorders that can be adapted by practitioners, worldwide.

Learning Objectives:

1. Learn how to evaluate and recommend common non-pharmacological interventions and technology aids as part of the treatment of patients with neurodevelopmental disorders.
2. Learn how to develop programs to provide comprehensive evaluation and treatment for patients with neurodevelopmental conditions that decrease the long-term impact on their mental and physical health as they grow up.

Impact Statements:

1. The use of some common non-pharmacological interventions and alternative therapies in Neurodevelopment disorders, especially Autism.
2. How to coordinate chronic and long-term care for patients with neurodevelopment disorders, especially ADHD.

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OCTOBER 12-23, 2020

Organizer:

Maria Teresa Acosta, MD;
National Human Genome
Research Institute, National
Institutes of Health,
Bethesda, Maryland, USA

Co-Organizer:

Gabriel Gonzalez Rabelino,
University of the Republic of
Uruguay, Pereira Rossell Hospital,
Montevideo, Uruguay

***Why to Treat ADHD as a
Chronic Medical Condition:
Impact of a Health Care Model
and Long-Term Outcomes***

Maria Teresa Acosta, MD

***Alternative Therapies and
Non-Pharmacological Treatment
in Autism: What Parents
Would Like to Know***

Víctor Ruggieri, MD;
Hospital de Pediatría J. P. Garrahan,
Buenos Aires, Argentina

***Advances in the Use of
Technology and Virtual
Reality for the Diagnosis and
Treatment of ASD and Other
Neurodevelopmental Disorders***

Fernando Mulas Delgado, MD, PhD;
Instituto Valenciano de
Neurología Pediátrica,
Valencia, Spain

***Treatment of
Neurodevelopmental Disorders
without Geographic Barriers***

Manuel Vides-Rosales, MD MS;
Centro Medico Escalon,
San Salvador, San Salvador,
El Salvador

1:00 PM – 3:15 PM

**SYMPOSIUM: ETHICS:
HUMANISM IN CHILD
NEUROLOGY: The Time is Now!**

Course Description:

Goal: The primary goal of this
symposium is to increase global
awareness about the importance
of humanism in child neurology for
our patients and for ourselves.

Secondary Goals:

1. Recognize the humanistic needs
of our patients with neurological
disorders
2. Understand how to live a
humanistic professional life while
facing many challenges
3. Learn what humanism means
in every continent and country
throughout the world

Learning Objectives:

1. Understand the importance of
humanism in child neurology
2. Understand what humanism
means in different global
settings

Impact Statements:

1. Being more aware and supportive
of the humanism of my patients
and their families and more
responsive to them
2. Being more sensitive to the
different meanings of humanism
in my patients who come from
various cultural backgrounds

Organizer:

David L. Coulter, MD;
Harvard Medical School,
Boston Children's Hospital,
Boston, Massachusetts, USA

***Definitions and History
of Humanism***

Alcy R. Torres, MD;
Boston University School of
Medicine, Boston Medical Center,
Boston, Massachusetts, USA

***Obstacles to Practice Humanism in
Child Neurology in Global Health***

Ornella Ciccone, MD, DTM&H, MMED;
University Teaching Hospital,
Lusaka, Zambia

***Neurology and Longevity:
A Critical Care Pediatrician's
Perspective***

Kam Lun Ellis Hon, MBBS, MD,
FAAP, FCCM, The Hong Kong
Children's Hospital,
Hong Kong

***The Time is Now!
Humanism as the Global
Bedrock of Child Neurology***

David L. Coulter, MD

1:00 PM – 3:15 PM

**SYMPOSIUM: HEADACHE:
Migraine Management in 2020:
New Options for Treatment
and How to Incorporate Recent
Guidelines and Novel Treatments
in Clinical Practice**

Course Description:

This session will cover recent
developments in migraine
management. Dr. Lewis and
Dr. Oakley will review new
medications (including anti-GCRP
medications) and neuromodulatory
devices designed for the acute
and preventive treatment of
migraine. Speakers will discuss the
mechanisms of action, evidence
of efficacy, potential side effects,
and pediatric specific issues
for these novel treatments. Dr.
Guidetti will review recently
published guidelines for the
treatment of pediatric migraine
and discuss how to integrate
these recommendations into the
clinical practice treating youth
with chronic migraine. He will
also consider similarities and
differences between European and
US migraine treatment so we can
each learn from others' experience.
Together these topics will enhance
participants' ability to manage
episodic and chronic migraine in
clinical practice.

Learning Objectives:

1. Understand the role of CGRP in migraine and how anti-CGRP medications may be used to treat migraine.
2. Understand and describe the role of neuromodulation in the management of migraine and how these devices may be used to treat migraine in the pediatric population.
3. Discuss how the new AAN guidelines on the treatment of pediatric migraine can be applied to clinical practice.

Impact Statements:

1. The management of chronic migraine in pediatrics.
2. Acute or abortive treatment of migraine in pediatrics.

Organizer:

Heidi K. Blume, MD, MPH;
Seattle Children's Hospital,
University of Washington,
Seattle, Washington, USA

Novel Medications for the Treatment of Migraine: Anti-GGRP Therapies and Other Medications in the Migraine Pipeline

Kara Stuart Lewis, MD, FAHS, FAAN;
Barrow Neurological Institute
at Phoenix Children's Hospital,
Phoenix, Arizona, USA

Neuromodulation for Migraine: What is the Role for Devices in the Treatment of Childhood Migraine?

Christopher B. Oakley, MD;
Johns Hopkins Hospital,
Baltimore, Maryland, USA

New Guidelines for Treatment of Pediatric Migraine: How to Apply These Recommendations and Novel Treatments to Manage Chronic Migraine in Clinical Practice

Vincenzo Guidetti, MD;
University of Rome "La Sapienza,"
Rome, Italy

3:30 PM – 5:45 PM

**SYMPOSIUM:
NEUROMUSCULAR DISEASE:
Gene Transfer for Children:
What We Know Now****Course Description:**

The promise of gene therapy is now a reality for several neuromuscular conditions. This symposium will address four educational objectives including 1) to understand treatment implementation for commercially available gene transfer 2) to understand the status of ongoing clinical trials in Spinal Muscular Atrophy, X-linked myotubular myopathy, Duchenne and limb girdle muscular dystrophy; 3) to understand future gene therapy for other neuromuscular disorders and 4) to understand the critical role of Newborn screening if gene therapy is to succeed.

Learning Objectives:

1. Understand the current status of approved, ongoing, and future clinical gene transfer trials for children with neuromuscular disorders.
2. Understand the role of the Newborn Screening in the translation of these clinical trials to implementation across all populations.

Impact Statements:

1. Understanding the treatment and care of a child before, during and after gene transfer and the role of Newborn screening as therapies are approved.
2. Understanding and describing risk/benefit considerations of gene replacement therapy in a non-progressive muscle disease such as X-linked myotubular myopathy.

Organizer:

Anne M. Connolly, MD, FAAN;
Nationwide Children's Hospital,
The Ohio State University
College of Medicine,
Columbus, Ohio, USA

Gene Therapy for SMA and DMD: Where are we Now?

Anne M. Connolly, MD, FAAN

Gene Replacement Therapy in X-linked Myotubular Myopathy

Nancy L. Kuntz, MD, FAAN;
Ann & Robert H Lurie
Children's Hospital of Chicago,
Chicago, Illinois, USA

Is Gene Replacement a Viable Option for my Favorite Disease?

Katherine D. Mathews, MD;
University of Iowa Carver
College of Medicine,
Iowa City, Iowa, USA

Newborn Screening in the Era of Gene Therapy

Margie Ream, MD, PhD;
Nationwide Children's Hospital,
Columbus, Ohio, USA

Thursday, October 22 • continued

3:30 PM – 5:45 PM

SYMPOSIUM: EPILEPSY: **IN SPANISH: Pediatric Epilepsy.** **When Drugs Don't Work**

Course Description:

To present current data on drug resistant epilepsy and therapeutic options when pharmacological treatment is not a choice. This program will explore latest information about pediatric epilepsy surgery. Speaker from Cleveland Clinic, a center with extensive expertise in surgical epilepsy will present available surgical techniques and outcomes. This will be followed by a discussion about the challenges experienced in Latin America for the creation of surgical programs.

Finally, the symposia will address current therapeutic options for children with drug resistant epilepsy, when surgery is not an option. Target audience: Latin America and Spanish speaking countries, with the goal to raise awareness about importance of developing alternative therapies (including surgery) for children with drug resistance epilepsy. Dr. Vanegas, from Mexico has been a leader and advocate in the initiative of creating surgical centers in Latin America and is a representative of ILAE (International League against Epilepsy). This symposium is also intended to educate audience about need to develop such programs in poor resource regions.

Learning Objectives:

1. As a result of this educational session, participants will be able to: learn relevant data about pediatric drug refractory epilepsy and understand that medications are not the best option.
2. As a result of this educational session, participants will be able to learn about importance of creating epilepsy surgery programs in Latin America to care for children with drug refractory epilepsy and alternative options when surgery is not a possibility

Impact Statements:

1. This educational session helped me to identify changes I could make in my practice related to patients who present to my clinic with drug refractory epilepsy
2. This educational session helped me to identify changes I could make in my practice related to referral for epilepsy surgery evaluation in children with drug refractory epilepsy, who are appropriate candidates

Organizer:

Jorge Vidaurre, MD;
Nationwide Children's Hospital,
The Ohio State University,
Columbus, Ohio, USA

Elia M. Pestana-Knight, DO;
Cleveland Clinic Epilepsy Center,
Cleveland, Ohio, USA

Co-Organizer:

Mario A. Genel Castillo, MD;
Clinica de Epilepsia,
Hospital de Salud Mental,
Tijuana B.C., Mexico

Introduction

Jorge Vidaurre, MD

Pediatric Epilepsy Surgery in the Stereo EEG Era. Cleveland Clinic Experience

Elia M. Pestana-Knight, DO

Epidemiology of Drug Resistant Epilepsy. Data You Should Know. What to Tell our Families?

Loreto Ríos-Pohl, MD;
Clínica Integral de Epilepsia
Infanto-Juvenil (CIEI),
Santiago, Chile

Establishing Epilepsy Surgical Programs in Low-income Countries.

The Latin America Experience
Mario A. Alonso Vanegas MD, FAES;
Internacional Epilepsy Surgery
Center, HMG-Coyoacán Hospital,
México City, México

Drug Refractory Epilepsy.

When Surgery is not an Option
Juan Carlos Perez-Poveda, MD;
Pontificia Universidad Javeriana,
Hospital Universitario San Ignacio,
Fundacion Hospital Pediatrico,
Bogotá, D. C., Colombia

6:00 PM – 8:15 PM

**SYMPOSIUM:
NEURO-METABOLIC DISORDERS:
Vitamin Responsive Conditions in
Child Neurology: What's New?**

Course Description:

Vitamin responsive conditions are a “must know” area for every child neurologist, as vitamin treatments are simple, inexpensive and safe treatments for a host of neurological conditions. Child neurologists need to be able to promptly recognize and treat these entities. In this session, the speakers will discuss the latest developments in vitamin responsive epilepsies, encephalopathies, movement disorders and neuromuscular conditions. The four speakers will be Dr Ingrid Tein (Canada), Dr Haluk Topaloglu (Turkey), Dr Naveen Sankhyan (India) and Dr Suvasini Sharma (India).

Dr Tein's lecture will be focused on vitamin responsive early infantile epileptic encephalopathies with special reference to pyridoxine dependent epilepsy and related disorders. The current guidelines on recognition and treatment of these conditions as well as the new genetic conditions now recognized to causing pyridoxine dependent epilepsy will be discussed. Dr Topaloglu will discuss riboflavin responsive conditions with special emphasis on riboflavin transporter deficiency. The recent advances in clinical and genetic diagnosis and treatment strategies for riboflavin responsive disorders will be discussed.

Dr Sankhyan will be discussing inherited and acquired neurological disorders responsive to vitamin B12 and Folate treatment. There will be a special focus on infantile tremor syndrome, an interesting condition characterized by infantile onset neuroregression, tremors, skin and hair changes, which responds very well to vitamin B12 therapy. Dr Sharma will cover the recognition, diagnosis and management of inborn errors of metabolism which respond to thiamine and biotin supplementation with special focus on the recently described biotin and thiamine responsive basal ganglia disease, caused by mutations in the SLC19A3 gene. Acquired neurological disorders caused by thiamine deficiency, such as Wernicke encephalopathy will also be discussed.

Learning Objectives:

1. Recognize common as well as rare and newly described vitamin responsive conditions in child neurology.
2. Understand the diagnostic approach and treatment strategies.

Impact Statements:

1. Trial of high dose riboflavin supplementation unexplained progressive peripheral and cranial neuropathies and neuronopathies
2. Vitamin trials in unexplained refractory seizures in young infants, and high dose vitamin trials in acute metabolic decompensations.

Organizer:

Suvasini Sharma, MD, DM;
Lady Hardinge Medical College and
Associated Kalawati
Saran Children's Hospital,
New Delhi, India

***Thiamine and Biotin
Responsive Disorders***

Suvasini Sharma, MD, DM

***Pyridoxine Dependent
Epilepsy and Related Disorders:
Recent Advances***

Ingrid Tein, MD;
The Hospital for Sick Children,
University of Toronto,
Toronto, Ontario, Canada

Riboflavin Responsive Disorders

Haluk Topaloglu, MD;
Hacettepe Children's Hospital,
Ankara, Turkey

***Vitamin B12 and Folate Responsive
Disorders***

Naveen Sankhyan, MD, DM;
Post Graduate Institute of
Medical education and Research,
Chandigarh, India

Thursday, October 22 • continued

6:00 PM – 8:15 PM

**SYMPOSIUM:
GLOBAL NEUROLOGY:
Pediatric Neurology.
A Global Perspective**

Course Description:

To educate audience about the global situation of pediatric neurology, using data and statistics from the World Health Organization (WHO). The program brings international leaders and speakers with extensive experience in international outreach/collaborative projects directed to reduce gap in medical knowledge and access to neurological care. The symposium will educate audience about importance of collaborative efforts between medical societies (including CNS), to support local efforts in low income countries.

The panel of speakers (which includes current president of the international Child Neurology Association and past president of the international League against Epilepsy) will share their wide experience working with poor-resource regions in Africa and other poor-resource regions and will educate audience with potential solutions to improve access to neurological care for children living in these areas.

Learning Objectives:

1. Learn about the global situation of pediatric neurology and understand the situation of pediatric neurology practice in low income countries.
2. Learn about importance of collaborative international projects directed to improve education and clinical care in low income countries.

Impact Statements:

1. Learning about the global situation of pediatric neurology and becoming more active in supporting international educational programs
2. Recognizing importance of t international outreach programs directed to improve pediatric neurological care, and finding ways to collaborate, as a CNS member

Organizer:

Jorge Vidaurre, MD;
Nationwide Children's Hospital,
The Ohio State University,
Columbus, Ohio, USA

Co-Organizer:

Agustin Legido, MD, PHD, MBA;
Philadelphia, Pennsylvania, USA

Introduction: A Global Perspective of Child Neurology

Agustin Legido, MD, PHD, MBA

Jorge Vidaurre, MD

Child Neurology in Africa. Narrowing the Gap in Access to Medical Care

Jo M. Wilmshurst, MB, BS, MD,
Red Cross War Memorial
Children's Hospital, University
of Cape Town, Cape Town,
Western Cape, South Africa

Yes. There are Global Disparities in Epilepsy Care. Can we do Something?

Solomon L. Moshé, MD;
Albert Einstein College of Medicine,
Montefiore Medical Center,
Bronx, New York, USA

Practicing Pediatric Neurology in Poor Resource Regions. Importance of Collaborative Efforts

Arushi G. Saini, MD, DM;
Postgraduate Institute of Medical
Education and Research (PGIMER),
Chandigarh, India



Spencer, living with epilepsy

Connecting **with patients**

**At UCB, everything we do starts with a simple question:
"How will this create value for people living with severe diseases?"**

UCB is proud to support the Child Neurology Society. We are committed to advancing research to improve the lives of people living with epilepsy and finding solutions to help patients live at their ideal.

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Inspired by **patients.**
Driven by **science.**



**16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting**

Friday, October 23

6:00 AM – 6:55 AM

**FRANK FORD AWARD LECTURE:
The Global Burden of Paediatric
Neurological Disorders**

Charles Newton, MD;
University of Oxford, Oxford,
United Kingdom, KEMRI-Wellcome
Trust Collaborative Programme,
Kilifi, Kenya

Course Description:

An invited lecture that assess
the global burden of Pediatric
Neurology Disorders, discussing
disability adjusted life years

Learning Objectives:

1. Meaning of the Disability Adjusted Life Years in terms of Global Burden of Diseases
2. Identify the neurological complications of diseases usually associated with low income countries and immigrant populations

Impact Statements:

1. Make Pediatric Neurologists more aware of neurological conditions in low income countries and immigrant populations
2. Introduce cultural awareness of neurological conditions in the immigrant populations.

10:30 AM – 12:45 PM

**SYMPOSIUM:
TRAUMATIC BRAIN INJURY:
New Advances in Management,
Treatment and Rehabilitation**

Course Description:

Each year, TBI causes a substantial number of deaths and leads to life-long disability for many children around the world. Every year, 830,000 children die from unintentional or “accidental” injuries and TBI represents about 30%. 2270 children die every day as a result of an unintentional injury and the vast majority of these injuries occur in low-income and middle-income countries.

Child injuries are a growing global public health problem. They are a significant area of concern from the age of one year. Among older children they represent almost half of the deaths. The effects of a TBI can vary significantly, but individuals with a moderate or severe TBI may have long-term or life-long effects from the injury. A severe TBI not only impacts the life of an individual and their family, but it also has a large societal and economic toll. The lifetime economic cost of TBI, including direct and indirect medical costs, was estimated to be approximately \$76.5 billion in 2010 in the US only.

Additionally, the cost of fatal TBIs and TBIs requiring hospitalization, many of which are severe, account for approximately 90% of total TBI medical costs. Falls are one of the leading causes of TBI-related ED

visits, hospitalizations, and deaths, and recent data shows that over 25% of fall-related TBIs were among the youngest (0-4 years).

Goal: The main objective of this symposium is to increase awareness about importance of practicing humanism in child neurology not only for our patients but for ourselves.

Secondary Goals:

1. Recognize the humanistic needs of our patients with neurological diseases
2. Understand how to live a humanistic professional life facing so many challenges
3. Be familiar with difficult situations and how to solve them in current times and different areas of the world.

Learning Objectives:

1. Recognize the symptoms of patients with mild or severe Traumatic Brain Injury and design comprehensive therapeutic plans for each group according to their needs
2. Implement timely, appropriate supportive critical care, neurological therapy and rehabilitation for patients with traumatic brain injury

Impact Statements:

1. Diagnosis and management of children with mild or severe traumatic brain injury
2. Rehabilitation of children with traumatic brain injury with long term sequelae

Organizer & Moderator:

Christopher C. Giza, MD;
UCLA – Mattel Children’s Hospital,
Los Angeles, California, USA

Co-Organizer:

Alcy Torres, MD;
Boston University School of
Medicine, Boston Medical Center,
Boston, Massachusetts, USA

Basic Science and Translational Research Relating to Pediatric TBI

Christopher C. Giza, MD

Pediatric Concussion and Mild TBI

Alcy Torres, MD

Severe TBI: Evaluation and Managing of Children in the ICU

Biju Hameed, MRCP, MRCPCH,
PhD; Great Ormond Street
Hospital for Children,
London, England, UK

Innovative and Practical Methods of Rehabilitation

Lucia Braga, Neuroscientist, PhD;
SARAH Network of
Rehabilitation Hospitals,
Brasilia, Brazil

10:30 AM – 12:45 PM

SYMPOSIUM:**NEUROMETABOLIC DISORDERS: Novel Advanced Treatment in Neurogenetic Disorders****Course Description:**

The aim of this symposium is to present novel treatments for neurogenetic disorders, which will enhance our understanding of the future potential for treatment of a range of neurogenetic conditions.

Learning Objectives:

1. Learn the pathogenic mechanisms of some important neurogenetic and neurometabolic diseases in children.
2. Gain knowledge about recent advances in novel treatments for some important neurogenetic and neurometabolic diseases.

Impact Statements:

1. The recognition of clinical features of certain rare neurogenetic and neurometabolic diseases.
2. Knowledge about recent advances in the treatment of neurogenetic and neurometabolic diseases.

Organizer:

Wang-Tso Lee, MD, PhD,
National Taiwan University
Children’s Hospital,
Taipei, Taiwan

Recent Advances in SSADH Deficiency, a Disorder of GABA Metabolism

Phillip L. Pearl, MD;
Boston Children’s Hospital,
Harvard Medical School,
Boston, Massachusetts, USA

Recent Advance in Possible Probiotic Treatment for Neurogenetic Disorders

Wang-Tso Lee, MD, PhD

Gene Therapy for AADC Deficiency and other Neurogenetic Disorders

Toni Pearson, MBBS, Washington
University School of Medicine,
St. Louis, Missouri, USA

Recent Advance in Targeted Treatment in Children with NCLs

Nicola Specchio, MD, PhD,
Bambino Gesù’ Children’s Hospital,
IRCCS, Rome, Italy

1:00 PM – 3:15 PM

SYMPOSIUM:**NEUROIMMUNOLOGY: MOG Antibody Associated Neurological Disease – An Update for the Clinician****Course Description:**

This symposium’s objective is to update the child neurology community on the emerging and rapidly expanding spectrum of MOG AB associated neurological disease. This would be predominantly clinician-centric and would help the participants in getting updated information on the diagnostic and therapeutic challenges the clinician faces in taking care of this newly described inflammatory demyelination disorder (IDD) of the central nervous system with myriad presentations.

Learning Objectives:

1. Identify the different clinical situations where one should consider MOG antibody associated neurological diseases in the clinic and in the ICU.
2. Familiarize themselves with the imaging features that distinguish MOG AB associated IDDs from AQP-4 associated NMOSD and from MS and learn how to differentiate these different syndromes
3. Learn about the challenges of the detection of MOG ABs and also get an overview of how these antibodies cause disease.
4. Decide the why, when and how to manage these disorders in the acute stage and in the long-term.
5. Give long-term prognosis to parents about risk of relapse and any persisting deficits expected.

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virtual2020

OCTOBER 12-23, 2020

Friday, October 23 • continued

Impact Statements:

1. Diagnosis and differential diagnosis of MOG – associated Neurological Disorders
2. Treatment strategies in the different MOG associated disorders.

Organizer:

Vrajesh Udani, MD;
Hinduja Hospital & Medical
Research Centre,
Mumbai, India

Overview of the MOG Antibody Associated IDD's and Challenges in Laboratory Diagnosis

Vrajesh Udani, MD

Clinical and Imaging Features of the MOG Associated IDD's

Russell Dale, MRCP, PhD;
Children's Hospital at Westmead,
University of Sydney,
Sydney, NSW, Australia

Update on Current Management Strategies and Outcome in the MOG Associated IDD's

Yael Hacohen, MD;
Great Ormond Street
Hospital for Children,
London, United Kingdom

Panel Discussion – Case Scenarios

Neelu Desai, MD, DNB;
PD Hinduja Hospital &
Medical Research Centre,
Mumbai, India

1:00 PM – 3:15 PM

SYMPOSIUM:

GLOBAL NEUROLOGY: Integration of Global Health and Child Neurology: Perspectives and Successful Partnerships Around the World

Course Description:

In this symposium, we highlight the ways for participants to successfully partner with institutions around the world in order to integrate global health into child neurology practices. The objectives include:

1. Discuss various mechanisms and levels of involvement possible for child neurologists, including opportunities for those in training and early career phases,
2. Identifying mechanisms of involvement for child neurologists based in higher resourced settings to partner with civil and NGO organizations in the developing world with a primary educational or clinical focus,
3. Understand the perspectives of researchers in the developing world in order to build successful research collaborations, and 4. Providing an example of approaching research in global child neurology, including mechanisms for funding and partnership.

Learning Objectives:

1. Identify opportunities for getting involved in global child neurology
2. Understand the core components of successful global research collaborations, including engagement, support for researchers in the developing world, and funding strategies

Impact Statements:

1. Various mechanisms of involvement to provide effective support for child neurology practices in lower resource regions through global partnerships
2. Developing strategies to establish successful partnerships in the developing world for research collaborations

Organizer:

Archana A. Patel, MD, MPH;
Harvard Medical School,
Boston Children's Hospital,
Boston, Massachusetts, USA

Integrating Global Health in a Child Neurology Career

Archana A. Patel, MD, MPH

How to Get Started – Clinical and Educational Opportunities in Global Child Neurology

Douglas G. Postels, MD, MS;
Children's National Medical
Center, George Washington
University, Washington, DC, USA

Building a Research Collaboration- Considerations and Perspectives of Researchers from LMIC

Pauline Samia, Mphil;
Aga Khan University,
East Africa, Nairobi, Kenya

Building a Research Collaboration- Considerations for Funding and an Example from the US and Nigeria

Edwin Trevathan, MD, MPH;
Vanderbilt University
Medical Center,
Nashville, Tennessee, USA



My first seizure could have been trying to tell you something.

When the first seizure strikes a newborn, be aware of and consider testing for **molybdenum cofactor deficiency (MoCD)**.¹ This neurological disease can present with intractable seizures and trigger a pattern of progressive brain damage that is often fatal.¹⁻³

Every minute counts, so use the **STAT** approach to make an early treatment decision:

S

See a seizure?

T

Think MoCD.

A

Assess for sulfites.

T

Time to call Origin Biosciences.

Contact Origin Biosciences at (617) 322-5165 to learn about an investigational treatment for MoCD Type A.





16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting

Sponsor/Exhibitors

ICNA and CNS thank the following partners for their generous financial support.

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16th International Child Neurology Congress
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Schedule at a Glance

ALL TIMES PACIFIC DAYLIGHT TIME

15 Minutes Q&A Will be Added to Each CME Session (other than plenary/award lectures - no Q&A)

Monday, October 12, 2020	
On Demand (24/7)	Welcome: Jo Wilmshurst, President, ICNA
On Demand (24/7)	Welcome: Phillip Pearl, President, CNS
On Demand (24/7)	Welcome: Jonathan Mink, Chair, Joint CNS-ICNA Program Planning Committee
1:00 PM - 2:00 PM	Professors of Child Neurology (PCN): Part I: Annual Business Meeting (Private Zoom Meeting)
2:15 PM - 4:30 PM	Professors of Child Neurology (PCN): Part II: Education Session (Private Zoom Meeting)
2:30 PM - 4:00 PM	Cerebral Palsy SIG
4:30 PM - 6:00 PM	Telemedicine SIG
4:30 PM - 6:00 PM	Neurodevelopmental Disorders SIG
On Demand (24/7)	Child Neuro Night Club: American Creativity, Ingenuity and Diversity (Jazz & Spoken Word)
Tuesday, October 13, 2020	
11:30 AM - 12:30 PM	Industry Sponsored Product Theater: Spinal Muscular Atrophy (Genentech)
1:00 PM - 2:00 PM	Industry Sponsored Educational Seminar: Patient Identification, Evaluation, and Management - Addressing Multiple Challenges in Neurodegenerative Lysosomal Storage Diseases (Takeda)
1:00 PM - 3:00 PM	Meet the Experts: Experimental Therapeutics; Gene Therapy for Childhood Neurological Disorders
3:00 PM - 4:30 PM	Education SIG
3:30 PM - 5:30 PM	Workshop: Neuropsychiatry/Movement Disorders: Practical Management of Functional Neurologic Diseases in Children
6:00 PM - 8:00 PM	Meet the Experts: Ethics: Costly Drugs and Healthcare - Ethics and Value Perspectives from Different Healthcare Systems
6:00 PM - 8:00 PM	Meet the Experts: Neuroimmunology: Parainfections and Seronegative Autoimmune Encephalitis in Children: Updates and Controversies
6:00 PM - 8:00 PM	Seminar: Epilepsy: Don't Ask Don't Tell, or Full Disclosure? Discussing SUDEP with Patients and Families in the Global Community
On Demand (24/7)	Child Neuro Night Club: American Creativity, Ingenuity and Diversity (Jazz & Spoken Word)

Schedule at a Glance

ALL TIMES PACIFIC DAYLIGHT TIME

15 Minutes Q&A Will be Added to Each CME Session (other than plenary/award lectures - no Q&A)

Wednesday, October 14, 2020	
8:00 AM - 10:00 AM	Seminar: Neuroinfectious Disease: Measles Vaccination - Current Situation and Consequences - A Global Perspective
8:00 AM - 10:00 AM	Seminar: Stroke: Pediatric Stroke in the Era of Advanced Genetics
10:00 AM - 12:00 PM	Workshop: Epilepsy: Pediatric Epilepsy Surgery: When, by Whom, and What to Expect?
10:30 AM - 12:30 PM	Seminar: Neurogenetics: Recent Advances in the Etiologies and Mechanisms Underlying Common Brain Malformations
12:30 PM - 1:30 PM	Industry Sponsored Educational Seminar: Distinguishing Pediatric Movement Disorders: Uncovering AADC Deficiency (PTCBio)
1:00 PM - 3:00 PM	Seminar 4: Neuroimmunology: A New Era for Patients with NMOSD, including Children
3:00 PM - 4:30 PM	Early Stage Investigator SIG
3:00 PM - 4:30 PM	Neurogenetics SIG
4:00 PM - 6:00 PM	Industry Sponsored CME Seminar: SMA Horizons: What is the Future of SMA Management? (Genentech)
6:00 PM - 8:00 PM	Junior Member Seminar: Becoming a Physician Scientist in Pediatric Neurology
On Demand (24/7)	Child Neuro Night Club: American Creativity, Ingenuity and Diversity (Jazz & Spoken Word)
Thursday, October 15, 2020	
10:30 AM - 11:30 AM	Industry Sponsored Product Theater: Spinal Muscular Atrophy (Avexis)
10:30 AM - 12:30 PM	Workshop: Global Neurology: Training to Bridge the Gap in Global Access to Child Neurology Care
12:30 PM - 2:00 PM	Peds Demyelinating Disease SIG
12:30 PM - 2:30 PM	Industry Sponsored CME Seminar: Developmental and Epileptic Encephalopathies (Zogenix)
1:00 PM - 3:00 PM	Junior Member Seminar: Nurturing the Global Pipeline of Academic Child Neurologists
3:30 PM - 5:30 PM	Meet the Experts: Behavioral Neurology: Management of Behavior in Children with Neurodevelopmental Disorders
6:00 PM - 8:00 PM	Meet the Experts: Neurometabolic Disorders: Unravelling the Complexity of Treatable Neurometabolic Disorders: A Case-based Session
On Demand (24/7)	Posters & Video Posters
On Demand (24/7)	Child Neuro Night Club: American Creativity, Ingenuity and Diversity (Jazz & Spoken Word)

ALL TIMES PACIFIC DAYLIGHT TIME

15 Minutes Q&A Will be Added to Each CME Session (other than plenary/award lectures – no Q&A)

Friday, October 16, 2020	
8:00 AM - 10:00 AM	Meet the Experts: Neuro-Cutaneous Disorders <i>(In Spanish)</i> : Neurocutaneous Syndrome Iberoamerican Network
10:00 AM - 11:00 AM	Industry Sponsored Product Theater: The Evolving Role of Early Pediatric Care for Spinal Muscular Atrophy (SMA) and a Treatment for Presymptomatic and Early-onset SMA (Biogen)
10:30 AM - 12:30 PM	Seminar: Headache <i>(In Spanish)</i> : Migraine in Children and Adolescents – Diagnosis, Management and Treatment
10:30 AM - 12:30 PM	Seminar: Neuroinflammation: Interferonopathies
10:30 AM - 12:30 PM	Seminar: Neonatal Neurology: The Value of Magnetic Resonance Imaging in the Newborn
10:30 AM - 12:30 PM	Meet the Experts: Neuromuscular: The Many Faces of Pediatric Neuromuscular Diseases: Cases, Approaches, Pearls and Challenges
12:30 PM - 2:00 PM	Neuro-Oncology SIG
12:30 PM - 2:00 PM	Neonatal Neurology SIG
1:00 PM - 3:00 PM	Workshop: Epilepsy/General Child Neurology: Telehealth – A Means to Global Outreach
3:30 PM - 5:30 PM	Junior Member Seminar: International Clinical Research Consortia in Child Neurology: Get Involved!
3:30 PM - 5:30 PM	Child Neurology Foundation: Shortening the Diagnostic Odyssey in Children with Neurologic Conditions
3:30 PM - 5:30 PM	Meet the Experts: Movement Disorders: Tics, Stereotypies, and their Look-a-Likes – Understanding and Managing Repetitive Movements
6:00 PM - 8:00 PM	Junior Member Seminar: Choosing your Career Track – Academic, Private Practice, and NGOs
On Demand (24/7)	Posters & Video Posters
On Demand (24/7)	Child Neuro Night Club: American Creativity, Ingenuity and Diversity (Jazz & Spoken Word)
Monday, October 19, 2020	
7:00 AM - 3:30 PM	Neurobiology of Disease in Children Symposium: Traumatic Brain Injury (TBI)
12:30 PM - 1:30 PM	Industry Sponsored Educational Seminar: Distinguishing Pediatric Movement Disorders: Uncovering AADC Deficiency (PTCBio)
2:30 PM - 4:00 PM	Cerebral Palsy SIG
5:00 PM - 6:00 PM	Industry Sponsored Product Theater: Spinal Muscular Atrophy (Genentech)
On Demand (24/7)	Posters & Video Posters
On Demand (24/7)	Child Neuro Night Club: American Creativity, Ingenuity and Diversity (Jazz & Spoken Word)

Schedule at a Glance

ALL TIMES PACIFIC DAYLIGHT TIME

15 Minutes Q&A Will be Added to Each CME Session (other than plenary/award lectures - no Q&A)

Tuesday, October 20, 2020	
6:00 AM - 6:55 AM	JOHN STOBO PRITCHARD AWARD LECTURE: Nicola Specchio, MD, PhD, Bambino Gesù' Children's Hospital, IRCCS, Rome, Italy: <i>Developmental and Epileptic Encephalopathies: What We Know and What We Do Not Know</i>
7:00 AM - 7:55 AM	BERNARD SACHS AWARD LECTURE: Joseph G. Gleeson, MD; University of California San Diego, Rady Children's Institute for Genomic Medicine, San Diego, CA, USA: <i>Genes as a Window into the Developing Brain</i>
8:00 AM - 9:00 AM	Industry Sponsored Educational Seminar: Progressive Pathways: Recent Recommendations and Emerging Therapies for Treatment of Tumors Associated with Neurofibromatosis Type 1 in Children (AstraZeneca)
10:30 AM - 11:30 AM	Industry Sponsored Product Theater: Spinal Muscular Atrophy (Avexis)
10:30 AM - 12:30 PM	SYMPOSIUM: NEUROIMMUNOLOGY: International Consensus Opinions in Opsoclonus-Myoclonus-Ataxia Syndrome
10:30 AM - 12:30 PM	SYMPOSIUM: STROKE: Pediatric Stroke: Hot Topics, Global Challenges
1:00 PM - 2:00 PM	Industry Sponsored Educational Seminar: Patient Identification, Evaluation, and Management - Addressing Multiple Challenges in Neurodegenerative Lysosomal Storage Diseases (Takeda)
1:00 PM - 3:00 PM	SYMPOSIUM: NEURO-ONCOLOGY: Pediatric Mixed Neuronal-Glial Tumors: New Classifications, Molecular Understandings and Targeted Therapy
3:30 PM - 5:30 PM	SYMPOSIUM: NEUROMUSCULAR DISEASE: Advances in Pediatric Charcot-Marie-Tooth Disease
3:30 PM - 5:30 PM	SYMPOSIUM: NEONATAL SEIZURES: Practical Approaches to Classification, Diagnosis and Management
6:00 PM - 8:00 PM	SYMPOSIUM: EPILEPSY: Infantile Spasms - Current Management - A Global Perspective; The Way Forward
6:00 PM - 8:00 PM	SYMPOSIUM: NEUROINFECTIOUS DISEASE: Tropical Infections of the CNS: A Worldwide Problem
6:00 PM - 8:00 PM	SYMPOSIUM: MOVEMENT DISORDERS: Lessons from Tourette Syndrome - Better Understanding of Development of the Child Brain
On Demand (24/7)	Posters & Video Posters
On Demand (24/7)	Child Neuro Night Club: American Creativity, Ingenuity and Diversity (Jazz & Spoken Word)

ALL TIMES PACIFIC DAYLIGHT TIME

15 Minutes Q&A Will be Added to Each CME Session (other than plenary/award lectures - no Q&A)

Wednesday, October 21, 2020	
6:00 AM - 6:55 AM	SHEILA WALLACE AWARD LECTURE: Suvasini Sharma, MD, DM; Lady Hardinge Medical College and Associated Kalawati Saran Children's Hospital, New Delhi, India: <i>Dietary Therapies for Epilepsy in Low Resource Settings: Challenges and Successes</i>
7:00 AM - 7:55 AM	PHILIP R. DODGE YOUNG INVESTIGATOR AWARD LECTURE: Hsiao-Tuan Chao, MD, PhD; Baylor College of Medicine, Houston, TX, USA: <i>The Impact of Serendipity: From "Rare" Neurodevelopmental Disorders to Common Insights</i>
8:00 AM - 10:00 AM	Industry Sponsored CME Seminar: SMA Horizons: What is the Future of SMA Management? (Genentech)
10:30 AM - 12:30 PM	SYMPOSIUM: NEUROGENETICS: Current Status of Developmental Encephalopathies: Rett Syndrome, MECP2 Duplication Disorder, CDKL5 Deficiency Disorder, and FOXP1 Disorder
10:30 AM - 12:30 PM	SYMPOSIUM: NEUROIMMUNOLOGY: Cutting Edge Technology in Neuroinflammation: Advancing Science and Increasing Capacity in Low and Middle-income Countries
12:30 PM - 2:30 PM	Industry Sponsored CME Seminar: Developmental and Epileptic Encephalopathies (Zogenix)
1:00 PM - 3:00 PM	SYMPOSIUM: COGNITIVE-BEHAVIORAL NEUROLOGY: The Molecular & Cellular Basis of Developmental Cognitive & Behavioral Disorders
1:00 PM - 3:00 PM	SYMPOSIUM: SLEEP: Integrating Pediatric Sleep Medicine into Child Neurology
3:30 PM - 5:30 PM	SYMPOSIUM: CEREBRAL PALSY: An Open Discussion on the Definition of Cerebral Palsy
3:30 PM - 5:30 PM	SYMPOSIUM: EPILEPSY: Epilepsy and Psychiatric Comorbidities
6:00 PM - 8:00 PM	SYMPOSIUM: GLOBAL NEUROLOGY: Global Challenges and Opportunities in Inpatient Child Neurology
6:00 PM - 8:00 PM	SYMPOSIUM: EPILEPSY: Ketogenic Diets in Child Neurology - A Tale of 100 Years: What Does the Future Hold?
On Demand (24/7)	Posters & Video Posters
On Demand (24/7)	Child Neuro Night Club: American Creativity, Ingenuity and Diversity (Jazz & Spoken Word)

SPECIAL INTEREST GROUP MEETINGS

Monday, October 12

Cerebral Palsy: 2:30 pm - 4:00 pm
Telemedicine: 4:30 pm - 6:00 pm
Neurodevelopmental Disorders: 4:30 pm - 6:00 pm

Tuesday, October 13

Education: 3:00 pm - 4:30 pm

Wednesday, October 14

Early Stage Investigator: 3:00 pm - 4:30 pm
Neurogenetics: 3:00 pm - 4:30 pm

Thursday, October 15

Peds Demyelinating Disease: 12:30 pm - 2:00 pm

Friday, October 16

Neuro-Oncology: 12:30 pm - 2:00 pm
Neonatal Neurology: 12:30 pm - 2:00 pm

Schedule at a Glance

ALL TIMES PACIFIC DAYLIGHT TIME

15 Minutes Q&A Will be Added to Each CME Session (other than plenary/award lectures - no Q&A)

Thursday, October 22, 2020	
6:00 AM - 6:55 AM	LINDA DE MEIRLEIR NEUROMETABOLIC AWARD LECTURE: Lance Rodan, MD, FRCP(C); Boston Children's Hospital, Harvard Medical School, Boston, MA, USA: <i>Update in Pediatric Neurometabolic Disorders 2020</i>
7:00 AM - 7:55 AM	HOWER AWARD LECTURE: Kenneth J. Mack, MD, PhD; Mayo Clinic, Rochester, MN, USA: <i>Migraine, Vertigo, and Dizziness</i>
10:00 AM - 11:00 AM	Industry Sponsored Product Theater: The Evolving Role of Early Pediatric Care for Spinal Muscular Atrophy (SMA) and a Treatment for Presymptomatic and Early-onset SMA (Biogen)
10:30 AM - 12:30 PM	SYMPOSIUM: NEONATAL NEUROLOGY: Neurodevelopmental Outcomes in Congenital Heart Disease: From Fetal Pathogenesis to Prevention
10:30 AM - 12:30 PM	SYMPOSIUM: NEURODEVELOPMENTAL DISORDERS: IN SPANISH: Beyond Pharmacological Treatment for Neurodevelopmental Disorders: What Parents and Physicians Want to Know About the Available Options
1:00 PM - 3:00 PM	SYMPOSIUM: ETHICS: Humanism in Child Neurology: The Time is Now!
	SYMPOSIUM: HEADACHE: Migraine Management in 2020: New Options for Treatment and How to Incorporate Recent Guidelines and Novel Treatments in Clinical Practice
3:30 PM - 5:30 PM	SYMPOSIUM: NEUROMUSCULAR DISEASE: Gene Transfer for Children: What We Know Now
3:30 PM - 5:30 PM	SYMPOSIUM: EPILEPSY: IN SPANISH: Pediatric Epilepsy. When Drugs Don't Work
6:00 PM - 8:00 PM	SYMPOSIUM: NEURO-METABOLIC DISORDERS: Vitamin Responsive Conditions in Child Neurology: Whats New?
6:00 PM - 8:00 PM	SYMPOSIUM: GLOBAL NEUROLOGY: Pediatric Neurology. A Global Perspective
On Demand (24/7)	Posters & Video Posters
On Demand (24/7)	Child Neuro Night Club: American Creativity, Ingenuity and Diversity (Jazz & Spoken Word)
Friday, October 23, 2020	
6:00 AM - 6:55 AM	FRANK FORD AWARD LECTURE: Charles Newton, MD; University of Oxford, Oxford, United Kingdom, KEMRI-Wellcome Trust Collaborative Programme, Kilifi, Kenya: <i>The Global Burden of Paediatric Neurological Disorders</i>
10:30 AM - 12:30 PM	SYMPOSIUM: TRAUMATIC BRAIN INJURY: New Advances in Management, Treatment and Rehabilitation
10:30 AM - 12:30 PM	SYMPOSIUM: NEUROMETABOLIC DISORDERS: Novel Advanced Treatment in Neurogenetic Disorders
1:00 PM - 3:00 PM	SYMPOSIUM: NEUROIMMUNOLOGY: MOG Antibody Associated Neurological Disease - An Update for the Clinician
1:00 PM - 3:00 PM	SYMPOSIUM: GLOBAL NEUROLOGY: Integration of Global Health and Child Neurology: Perspectives and Successful Partnerships Around the World
On Demand (24/7)	Posters & Video Posters
On Demand (24/7)	Child Neuro Night Club: American Creativity, Ingenuity and Diversity (Jazz & Spoken Word)

To Access Sessions On Demand thru March 2021, You must be registered by October 23



Registration

REGISTRATION FEES admit delegate to all Live Open Sessions, Live SIG Meetings, and On-Demand ePoster and Video-Poster Sessions. Junior Members also admitted to Junior Member Sessions. NDC: Traumatic Brain Injury requires additional course fee.

PLUS...

REGISTRATION FEE good for all recorded sessions available On-Demand November 2020 - March 2021.

CLICK HERE TO REGISTER
or go to
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CATEGORIES	REGISTRATION FEE	NDC COURSE FEE (ADDITIONAL - OPTIONAL)
ICNA High Income	\$500	\$60
ICNA Member Upper Middle Income	\$300	\$35
ICNA Member Lower Middle Income	\$100	\$25
ICNA Member Lower Income	\$75	\$25
ICNA Junior Member	\$50	\$25
CNS Active Member (Dues paid by 7/31)	\$500	\$60
CNS Active Member (late or unpaid dues)	\$600	\$60
CNS Emeritus Member	\$100	\$60
CNS Junior Member	\$50	\$25
Medical Student/Resident	\$50	\$25
Non-CNS Member/Non-ICNA Member	\$750	\$60
Non-CNS Member and Non-ICNA Member - ABPN Certified *	\$600	\$60

*ABPN Certified neurologists who are not CNS or ICNA members are eligible to register at CNS Active Member rates thanks to a grant from the American Board of Psychiatry and Neurology (ABPN)



16th International Child Neurology Congress
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Industry-Sponsored Seminars & Product Theaters

Links provided on CNS 2020 Meeting Page: <https://www.childneurologysociety.org/meetings/future-cns-annual-meetings>

PRODUCT THEATER:

Spinal Muscular Atrophy

Tuesday, October 13, 11:30 AM - 12:30 PM

Monday, October 19, 5:00 PM - 6:00 PM

Genentech

A Member of the Roche Group

CME SEMINAR:

Developmental and Epileptic Encephalopathies

(Miller Medical Communications with funding from Zogenix)

Thursday, October 15, 12:30 PM - 2:30 PM

Wednesday, October 21, 12:30 PM - 2:30 PM

Developmental Epileptic Encephalopathies encompass an array of devastating conditions marked by treatment-resistant seizures and significant comorbid neurodevelopmental challenges for which there continues to be a high unmet need. As part of those neurodevelopmental challenges, many children clinically present with autistic tendencies and traits. This symposium will cover the latest understanding of these behavioral challenges; including genetic correlates, clinical characteristics and behavior management strategies.

Educational Objectives:

1. Discuss the epidemiology, clinical presentation, and burden of autistic spectrum disorder (ASD) in epileptic encephalopathies (EE);
2. Analyze the key neuroanatomical and molecular determinants that regulate the complexities of behavior associate with epilepsy and EE;
3. Examine the relationship between seizure frequency and executive functions, such as behavior, emotion, and cognition;
4. Discuss current and emerging behavioral and pharmacologic management approaches for the treatment of ASD in EE.

(This program is supported by an independent educational grant from Zogenix, Inc.)

ZOGENIX

EDUCATIONAL SEMINAR:

Patient Identification, Evaluation, and Management - Addressing Multiple Challenges in Neurodegenerative Lysosomal Storage Diseases

Tuesday, October 13, 1:00 PM - 2:00 PM

Tuesday, October 20, 1:00 PM - 2:00 PM

Lysosomal storage diseases (LSDs) are a group of over 70 diseases that are characterized by lysosomal dysfunction, most of which are inherited as autosomal recessive traits. These disorders are individually rare but collectively affect 1 in 5,000 live births. LSDs typically present in infancy and childhood, although adult-onset forms also occur. Since LSDs are caused by systematic enzyme deficiencies, they often present with severe neurological symptoms. Diseases like Gaucher disease, mucopolysaccharidosis type II (MPS II), and metachromatic leukodystrophy (MLD) present with major neurological symptoms. Currently, the mechanisms for these neurological disease manifestations are not fully understood and present a diagnostic odyssey and major management challenges. Although these diseases are distinct with respect to pathology and clinical characteristics, there are important similarities in the unmet needs for these conditions. Some of these include substantial variability in patient phenotypes and associated prognoses; the need for biomarkers to support both patient identification and establishment of prognosis; improved early diagnosis including newborn screening to support earlier intervention; and a requirement for treatment approaches that address CNS pathology. Discussion of these unmet needs and a critical review of the manner in which they are now and will be addressed is important and timely; and it is the basis for the proposed symposium.

The product theatre will be presented in the following three sections:

1. Neurodegenerative consequences of Gaucher disease across the spectrum of patient phenotypes;
2. Predicting, assessing, and addressing cognitive dysfunction in MLD;
3. MPS II: Meeting needs for prognosis and monitoring



CME SEMINAR:

SMA Horizons:

What is the future of SMA management?

(France Foundation with funding from Genentech)

Wednesday, October 14, 4:00 PM - 6:00 PM

Wednesday, October 21, 8:00 AM - 10:00 AM

Spinal muscular atrophy (SMA) is the leading genetic cause of infant death. There are currently 2 approved life-saving therapies, with approval of a third treatment anticipated by summer. Treatment early in the disease course is crucial to preventing irreversible neuromuscular damage. However, diagnosis is often missed and/or delayed because of insufficient awareness of SMA among clinicians and families, and because the clinical presentation may appear similar to that of other diseases. The expanding landscape of SMA treatments necessitates the need for education that provides real-life, timely solutions based on the most current evidence and expert recommendations. This session will feature world-renowned SMA clinical experts Dr. Claudia Chiriboga, Dr. Perry Shieh, and Dr. Julie Parsons. They will explain the SMA disease process, describe mechanisms of action of FDA-approved and emerging therapies, and highlight the importance and impact of newborn screening efforts in the United States. Videos of a patient's journey through recent SMA clinical trials will be interspersed throughout the session to illustrate real-world experiences of patients and families, support clinical relevance of interventions discussed, and engage learners. In addition, patient vignettes will be used to highlight various approaches to SMA management. Faculty will describe clinical trial findings and experiences with approved and emerging therapies and discuss how new treatments have impacted clinical care.

The session will conclude with an opportunity for questions from the audience. At the conclusion of this program, the learners will be able to:

1. Review pathology, genetics, and epidemiology of SMA;
2. Explain the importance of genetic testing;
3. Discuss newborn screening and its importance in early diagnosis
4. Evaluate new and emerging therapies for SMA.

(This program is supported by an independent educational grant from Genentech, Inc.)



EDUCATIONAL SEMINAR:

Distinguishing Pediatric Movement Disorders: Uncovering AADC Deficiency (PTC Therapeutics)

Wednesday, October 14, 12:30 PM - 2:00 PM

Monday, October 19, 12:30 PM - 2:00 PM

Pediatric movement disorders can result from a variety of pathologies, including errors of metabolism, autoimmune processes, neurodegenerative and neurogenetic diseases, and others. Aromatic L-amino decarboxylase (AADC) deficiency is a rare, inherited disorder of neurotransmitter synthesis that presents early in life and can have debilitating effects on quality of life. Due to similarities in clinical presentation with other conditions (eg, cerebral palsy or epilepsy), patients with AADC deficiency are often undiagnosed or misdiagnosed. A differential diagnosis from other pediatric movement disorders is therefore critical to identify AADC deficiency and ensure optimal patient management. Understanding the clinical features, appropriate patient assessment methods and diagnostic approaches is key in this process. The objectives of this symposium are to provide an overview of pediatric movement disorders that may clinically resemble AADC deficiency, provide an overview of key clinical features, diagnostic tests, and screening methods for patients with suspected AADC deficiency, share clinical experience with regard to diagnosis of AADC deficiency in patients who initially presented with symptoms resembling those of certain pediatric movement disorders, review current management options for AADC deficiency, and provide a balanced overview of available information regarding treatments in development.

Faculty will:

1. provide an overview of pediatric movement disorders and highlight AADC deficiency as a movement disorder including etiology, key clinical features, and diagnostic methods,
2. review case studies and provide an overview of approaches to distinguishing and identifying AADC deficiency in these patients by highlighting key decision points along the patient journey and the testing methods that resulted in an accurate diagnosis of AADC deficiency, and
3. review current management options for AADC deficiency and provide a balanced overview of treatments in development for AADC deficiency, highlighting the importance of early and accurate diagnosis in order to provide appropriate disease management. The session will close with a group discussion designed to reinforce the key learning objectives and address questions from the audience.

(This program is supported by an independent educational grant from PTC Therapeutics)



Links provided on CNS 2020 Meeting Page:

<https://www.childneurologysociety.org/meetings/future-cns-annual-meetings>

CME SEMINAR:

**Progressive Pathways:
Recent Recommendations and Emerging
Therapies for Treatment of Tumors Associated
With Neurofibromatosis Type 1 in Children**

(PeerView w/ funding from AstraZeneca)

Tuesday, October 20, 8:00 AM - 9:AM

PeerView's latest MasterClass and Practicum satellite symposium will feature an expert review of:

1. Treatment recommendations, including diagnostic criteria, current management paradigms, and challenges in the care of NF-1 and NF-1-associated tumors in children;
2. Insight into the expanding landscape of targeted therapies for NF-1-associated tumors;
3. Practical guidance on effectively and safely incorporating these strategies and new therapies.

After participating in the activity, learners are expected to be better able to:

1. Describe fundamental aspects of NF-1 etiology, pathophysiology, and clinical presentation as they relate to pediatric patients;
2. Summarize current recommendations for NF-1 diagnosis and treatment of NF-1-associated tumors in pediatric patients;
3. Evaluate recent evidence regarding the role of emerging therapies in the treatment of NF-1-associated tumors in pediatric patients, including agents that affect the RAS/MAPK pathway;
4. Assess options for patient-centered treatment of PNs and other NF-1-associated tumors in pediatric patients.

(This program is supported by an independent educational grant from AstraZeneca)



PRODUCT THEATER:

**Advancing Our Understanding of
Gene Therapy in SMA:
From Clinical Trials to Real-World Experience**

Thursday, October 15, 10:30 AM - 11:30 AM

Tuesday, October 20, 10:30 AM - 11:30 AM



PRODUCT THEATER:

**The Evolving Role of Early Pediatric
Care for Spinal Muscular Atrophy (SMA) and
a Treatment for Presymptomatic and
Early-onset SMA**

Friday, October 16, 10:00 AM - 11:00 AM

Thursday, October 22, 10:00 AM - 11:00 AM





16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting

Sponsor/Exhibitors

Aeglea BioTherapeutics

Aeglea BioTherapeutics is a clinical-stage biotechnology company redefining the potential of human enzyme therapeutics to benefit people with rare and other high burden diseases.

Aeglea's lead product candidate, pegzilarginase, is currently being investigated in a pivotal Phase 3 clinical trial for the treatment of Arginase 1 Deficiency.

Aquestive Therapeutics

Aquestive Therapeutics is a leader in developing and delivering medications via our proprietary PharmFilm® technology. We've created a robust, proprietary CNS portfolio. Our innovations in oral drug delivery aim to improve the treatment experience for patients with epilepsy and their caregivers.

Association of Child Neurology Nurses (ACNN)

The Association of Child Neurology Nurses is an international non-profit organization of nurses and other health care professionals who promote excellence in child neurology nursing practice. The ACNN provides educational opportunities at national and regional conferences, nursing excellence awards, research support, newsletters, and online membership contacts for networking. Additional information and how to join can be found at www.acnn.org.

GOLD SPONSOR

AveXis, Inc.

AveXis is dedicated to developing and commercializing gene therapies for patients and families devastated by rare and life-threatening neurological genetic diseases. Our initial gene therapy for spinal muscular atrophy (SMA) has been approved in the United State, Japan and The European Union.



SILVER SPONSOR

AstraZeneca (NO BOOTH)

AstraZeneca is a global, science-led biopharmaceutical company that focuses on the discovery, development and commercialization of prescription medicines, primarily for the treatment of diseases in three therapy areas – Oncology, Cardiovascular, Renal & Metabolism and Respiratory.

For more information, please visit www.astrazeneca-us.com and follow us on Twitter @AstraZenecaUS.



SILVER SPONSOR

Biocodex

BIOCODEX is a family-owned multinational pharmaceutical company founded in France in 1953, with proven expertise in treatments for the central nervous system. As the maker of DIACOMIT® (stiripentol), we are dedicated to providing education and support to healthcare providers, affected individuals, and their families.



Exhibitor/Sponsors

GOLD SPONSOR

Biogen (NO BOOTH)

At Biogen, our mission is clear: we are pioneers in neuroscience. Biogen discovers, develops and delivers worldwide innovative therapies for people living with serious neurological and neurodegenerative diseases as well as related therapeutic adjacencies.



BioMarin Pharmaceutical Inc.

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.biomin.com to learn more.

SILVER SPONSOR

bluebird bio (NO BOOTH)

At bluebird, our goal is to recode the science, the system – and even the status quo – for life. Powered by multiple labs, in-house lentiviral vector manufacturing capabilities and future drug product production, we push ourselves to find answers for the people who need them by exploring the cutting-edge spectrum of gene therapy.



SILVER SPONSOR

Cannabinoid Clinical

Cannabinoid Clinical is a web-based platform to provide evidenced-based cannabinoid information to multi-disciplinary audience. Among the education resources is Covering Cannabinoids, a quarterly newsletter written to provide healthcare providers, payers, and policymakers timely information on scientific facts, trends, and regulations to help you make informed decisions. Sign up to receive this newsletter directly by email or read past issues by clicking the link: <https://www.cannabinoidclinical.com/covering-cannabinoids>



SILVER SPONSOR

Child Neurology Foundation

The Child Neurology Foundation serves as a collaborative center of education and support for children living with neurologic conditions and their families. CNF's expanding network of patients and caregivers, advocates and partners, researchers and clinicians is here so no child will ever have to walk alone.



GOLD SPONSOR

Eisai Inc.

As the U.S. pharmaceutical subsidiary of Tokyo-based Eisai Co., Ltd., we are a fully integrated global business with two commercial focus areas: oncology and neurology (dementia-related diseases and neurodegenerative diseases). To learn more about Eisai Inc., please visit us at www.eisai.com/US.



European Paediatric Neurology Society (EPNS)

A society for physicians with a research or clinical interest in Paediatric Neurology.

GOLD SPONSOR

Genentech

Genentech is a biotechnology company dedicated to pursuing groundbreaking science to discover and develop medicines for people with serious and life-threatening diseases. Our transformational discoveries include the first targeted antibody for cancer and the first medicine for primary progressive multiple sclerosis.



GOLD SPONSOR

Greenwich Biosciences, Inc.

Greenwich Biosciences is focused on discovering, developing, and commercializing novel therapeutics from its proprietary cannabinoid product platform. It is our passion and purpose to continually seek solutions that transform the lives of those living with rare and severe neurological diseases. For additional information, please visit www.GreenwichBiosciences.com. For more information about our product, please visit www.GBmedicine.com



Invitae

Invitae's mission is to bring comprehensive genetic information into mainstream medical practice to improve the quality of healthcare for billions of people. Our goal is to aggregate most of the world's genetic tests into a single service with higher quality, faster turnaround time and lower prices. Visit www.invitae.com.

Lineagen

Since 2010, Lineagen has developed and provided highly optimized genetic testing services for children with autism spectrum disorder and other neurodevelopmental disabilities. *Lineagen's genetic tests, which are all validated and collected by cheek swab, include FirstStepDxPLUS chromosomal microarray, fragile X syndrome testing, epilepsy panel testing, whole exome and whole genome sequencing, and pharmacogenomic testing.*

LivaNova

As pioneers of the VNS (Vagus Nerve Stimulation) Therapy® system, we continue to advance medical device solutions for people affected by treatment-resistant epilepsy. We strive to help where it really counts, where it truly matters the most. Sharp, responsive and effective – at LivaNova we serve health and improve lives. Day by day. Life by life.

Marinus Pharmaceuticals, Inc.

Marinus Pharmaceuticals is a clinical stage biopharmaceutical company committed to improving the lives of patients suffering from rare seizure disorders. Marinus is dedicated to the development of ganaxolone, offering a new mechanism of action for the potential treatment of adult and pediatric patient populations with CNS disorders.

National Institute of Neurological Disorders and Stroke (NINDS)

The National Institute of Neurological Disorders and Stroke (NINDS) (www.ninds.nih.gov), part of the National Institutes of Health (NIH), provides information about research funding and free publications for patients and their families on neurological disorders. Home of the free Migraine Trainer™ app: https://www.ninds.nih.gov/sites/default/files/ninds_migraine_trainer_flyer_508c.pdf. Disorder information: <https://www.ninds.nih.gov/Disorders>. NINDS publications catalog: <https://catalog.ninds.nih.gov/>.

SILVER SPONSOR

Neurelis, Inc.

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



Origin Biosciences

Origin Biosciences, a subsidiary of BridgeBio Pharma, is a biotechnology company focused on developing and commercializing a treatment for Molybdenum Cofactor Deficiency (MoCD) Type A. Together with patients and physicians, the company aims to bring a safe, effective treatment for MoCD Type A to market as quickly as possible.

Orphazyme Medical Affairs

Orphazyme is pioneering the Heat-Shock Protein response to develop innovative therapies for neurodegenerative orphan diseases. Arimoclomol, our lead candidate, is in development for four diseases: Niemann-Pick disease Type C (NPC), Gaucher Disease, sporadic Inclusion Body Myositis (sIBM), and Amyotrophic Lateral Sclerosis (ALS). For more information, visit www.orphazyme.com, LinkedIn or Twitter.

Exhibitor/Sponsors

Parent Project Muscular Dystrophy

Parent Project Muscular Dystrophy fights to end Duchenne. We accelerate research, raise our voices to impact policy, demand optimal care for every family, and strive to ensure access to approved therapies. Our Decode Duchenne program provides free genetic testing (diagnostic and carrier) for families living in the US or Canada.

Pediatric Epilepsy Research Foundation (PERF) (NO BOOTH)

The Pediatric Epilepsy Research Foundation (PERF) was established in 2004 as a not-for-profit foundation to support research in pediatric epilepsy and other pediatric neurologic conditions. PERF is proud to support this year's 5th Annual CNS John M. "Jack" Pellock Residents Seminar on Epilepsy for PGY5 and PGY6 trainees as part of a 5-year, \$50K/year unrestricted educational grant.

RosmanSearch

RosmanSearch is a Neurosurgery, Neurology and APP recruitment firm. We place quality providers with quality practices nationwide. We are the only search firm with dedicated teams specializing in neuroscience. Our mission is to be the best, the most expert, and the one that is known for quality – every time!

Saint Francis Health System

Warren Clinic, a part of Saint Francis Health System, is looking to add a BC or BE Pediatric Neurologist to our group. This physician will be joining Oklahoma's largest health system, which was ranked by Forbes as a Best-in-State Employer in 2019.

GOLD SPONSOR

PTC Therapeutics

PTC is a science-driven, global biopharmaceutical company focused on the discovery, development and commercialization of clinically differentiated medicines that provide benefits to patients with rare disorders. PTC's ability to globally commercialize products is the foundation that drives investment in a robust and diversified pipeline of transformative medicines and our mission to provide access to best-in-class treatments for patients who have an unmet medical need. To learn more about PTC, please visit us at www.ptcbio.com and follow us on Facebook, on Twitter at @PTCBio, and on LinkedIn.



Sanford Health

Sanford Health, one of the largest health systems in the United States, is dedicated to the integrated delivery of health care, genomic medicine, senior care and services, global clinics, research and affordable insurance. Headquartered in Sioux Falls, South Dakota, the organization includes 44 hospitals, 1,400 physicians and more than 200 Good Samaritan Society senior care locations in 26 states and 9 countries. Nearly \$1 billion in gifts from philanthropist Denny Sanford have transformed how Sanford Health improves the human condition. For information, visit sanfordhealth.org or Sanford Health News.

Sarepta Therapeutics

Our Products & Pipeline: Working urgently to bring therapies to those who need them.

At Sarepta, we are working with urgency to develop breakthrough therapies to treat genetic diseases. Currently, we have more than 40 investigational therapies in various stages of development – many already in late-stage clinical trials. In many cases, development is being accelerated by our gene therapy engine, which potentially provides a more efficient model for drug design.

St. Luke's University Health Network

St. Luke's University Health Network (SLUHN) is a fully integrated, regional, non-profit network of more than 16,000 employees providing services at 12 hospitals and 300+ outpatient sites.

To learn more, please visit www.slnh.org

GOLD SPONSOR

Takeda (NO BOOTH)

For over 200 years, Takeda has remained committed to bringing better health and a brighter future to people around the world by focusing on four therapeutic areas: Oncology, Rare Diseases, Neuroscience, and Gastroenterology (GI). Our neuroscience therapeutic area is driven by the immense unmet need of patients suffering from neurological diseases and current therapies include Major Depressive Disorder (MDD), Attention-Deficit Hyperactivity Disorder (ADHD), and Binge Eating Disorder (B.E.D.). In addition to this, Takeda also has a strong legacy in developing treatments for rare genetic and metabolic diseases, including Lysosomal Storage Disorders (LSDs) with visceral and neurological manifestations, which have a debilitating impact on patients, many of whom are diagnosed in early childhood. Our current portfolio for LSDs in the United States includes therapies for Gaucher Disease and MPS II (Hunter Syndrome). For more information on our pipeline and areas of focus please visit <https://www.takeda.com/what-we-do/>.



Tourette Association of America

The Tourette Association of America is dedicated to making life better for all individuals affected by Tourette and Tic Disorders. The only nationwide organization serving this community, the Association works to raise awareness, fund research and provide on-going support through its network of 31 Chapters, 83 Support Groups and 18 Centers of Excellence.

GOLD SPONSOR

Upsher-Smith Laboratories, LLC

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. We seek to deliver the best value for our stakeholders and do more good for our customers. For more information, visit www.upsheer-smith.com.



UT Health Austin Pediatric Neurosciences at Dell Children's

UT Health Austin Pediatric Neurosciences at Dell Children's provides world-class medical care for children with disorders of the central nervous system. The center is committed to interdisciplinary care promoting health-related quality of life through family-centered treatment, multidisciplinary collaborations, and interinstitutional partnerships. Including clinical academics and research-driven protocols with UT Austin.

Variantyx

We are a CLIA/CAP accredited genomic diagnostic lab that specializes in testing for rare inherited and neurological disorders. All of our tests, ranging from single gene to comprehensive genome-wide tests, are performed on a WGS-backbone methodology that uniquely detects all major types of genetic variation including small sequence changes, structural variants, mitochondrial variants and tandem repeat expansions. We provide the flexibility to test only the genes that you want to, with the option to reflex up to a comprehensive genome-wide test as part of the same test order.

GOLD SPONSOR

Zogenix

Zogenix is a global pharmaceutical company passionate about taking on the complex challenges of developing therapies with the potential to transform the lives of rare disease patients and their families.



CONNECTING WITH PARTNERS

Professors of Child Neurology



What time is it in California?

Tim Lotze, M.D. | President, Professors of Child Neurology

Some of you may be familiar with the radical proposal that all time zones should be abolished and replaced with a so-called “Universal Time.” Steve Hanke, professor of applied economics, and Dick Henry, professor of physics and astronomy at Johns Hopkins are big proponents of this concept. You can learn more about their reasoning related to economic and health benefits as well as some of the international politics of time zones at this link: <https://www.wired.co.uk/article/universal-time-zones>.

Time zone issues can be especially vexing in this pandemic. Like me, I am sure that many of you have had at least one experience of either confusing others or being confused yourself as to exactly what time zone some Zoom meeting was scheduled for when it involved people from across the country. I thought that I was a total “Time Zone Pro” until the day when I logged in to begin a meeting that I had scheduled with some members of the PCN, only to find that it was just ending. It recently got even worse for me, when I sent an incorrect meeting reminder to Nancy Bass- I got the time right but not the right month. Seems that I am alert but not oriented.

Time zone issues will also be tricky as we come into this virtual interview season and try to figure out how to coordinate applicants from the two coasts with faculty and residents from our programs, not to mention how they might also learn about our related pediatrics and adult neurology programs. One lesson that I learned from the most recent PCN webinar is that the internet has no time zone, and this is where our applicants are going to try and learn all that they can about our programs at whatever time they would like. For applicants, social media is especially important (and more valuable than program swag!) as a method for all of us to continue to advertise and highlight aspects of our programs. A general Tweet or Instagram message from you (or even better, your residents) about what is happening in your program is a cost effective and fair way to connect with the masses. I am sure that this will be an important part of recruitment for years to come.

For the upcoming virtual Professors of Child Neurology meeting at ICNA/CNS, I have triple checked the day and time and set up reminders and alarms on all my gadgets so that I do not miss it! We are all set for October 12, 2020. We will start at 1 PM **Pacific Daylight Time** with our traditional business meeting followed by a 2-hour CME session beginning at 2:15 PM **Pacific Daylight Time**.



Karen Ballaban-Gil



Rujuta Wilson

Our 1-hour business meeting will be via a special link sent out just to PCN members via *CNS Connect*. The business meeting will include our usual reviews of the Match, Treasurer report, K12, and a discussion of By-Laws revisions. We will also introduce and hear comments from the two candidates nominated to run for Director at Large: Karen Ballaban-Gil and Rujuta Wilson. I should note that Rujuta currently serves on the PCN Board of Directors, having filled out the 2nd year of my term when I became President; she is running this year to serve a full term of her own).

The subsequent 2-hour CME session will be open to other attendees of the ICNA-CNS meeting. I am looking forward to this session, as we will have Jimmy Reese presenting on the creation of a clinician educator pathway followed by Mary Zupanc discussing the findings and recommendations of the CNS Task Force investigating the practice of Child Neurology in the 21st century. Please be sure to read the

related publication if you have not done so already: "Child neurology in the 21st century: More than the sum of our RVUs" (<https://pubmed.ncbi.nlm.nih.gov/31874925/>). Due to our time zone issues, all ICNA-CNS talks, to include this session, have been pre-recorded. However, I am hoping that we will be able to engage in a "live" discussion, since I expect the majority of attendees will be coming from North America and (more or less) in the same time zone.

My time as the PCN President comes to an end with the conclusion of this meeting. It has been my privilege to have served in this position for the past couple of years, and the time went by fast... too fast for me to have gotten to all of the things needing to be done, and I wish that I had more of it to accomplish what is still left. However, the PCN will certainly be in excellent hands with its current Board members to include the incoming President, Nancy Bass. I will be stepping into a leadership position with the American Academy of Pediatrics, Section of Neurology Executive Committee. I hope to continue to partner with the PCN, so that together we might better connect with student and pediatric resident AAP members to let them know about Child Neurology and NDD earlier in their training.

I look forward to seeing you all online in the coming weeks and in person in the coming year!

Sincerely,
Tim Lotze, M.D.
President, Professors of Child Neurology
Professor of Pediatrics and Neurology
Texas Children's Hospital
Baylor College of Medicine

CONNECTING WITH PARTNERS

Program Coordinators of Child Neurology



Dear Colleagues

Adam Finney, MS | Vice-President, PCCN

We are thrilled to invite all Child Neurology residency program coordinators to attend the 7th Annual Program Coordinators of Child Neurology (PCCN) Conference. The conference this year will be virtual, but we will still have a great time learning and helping each other. As the conference plans come together, there are a few items worth highlighting.

We formed our coordinator group in 2014 to help fill a gap in the world of GME for Child Neurology residency programs and provide support, knowledge, and skills to the coordinators in their daily managerial role. Even though we continue to see substantial turnover in the coordinator workforce, I believe we have helped flatten the learning curve and have seen some consistency, at least among program coordinators who participate with the group. We could not have done any of this without Terri Feist.

We have a full three-day agenda and will again provide a Coordinator Boot Camp on the first day. The remainder of the conference will include a wide variety of topics, including recruiting, evaluation methods, and technology. Finally, we will have sessions regarding coordinator development and efforts nationally to advance the recognition and role of the Program Coordinator.

We aim to continue to provide support to child neurology residency coordinators by sharing best practices and practical tools for residency management. We are thankful to have the support of the Professors of Child Neurology and the Child Neurology Society, and look forward to working with them as we continue to advocate for improvements in GME and the role of the residency coordinator.

To register (recommend by October 8):

Program Coordinators: <https://www.badgeguys.com/reg/2020/cnsv/register.aspx?type=PC>



2019 Program Coordinators of Child Neurology Conference

CONNECTING WITH PARTNERS

Association of Child Neurology Nurses



Dear ACNN Colleagues

Jennifer Coffman, JD, MSN, CPNP-AC, CNRN | President, ACNN

As autumn represents releasing the old to make way for the new, it is only fitting that ACNN is embracing a new chapter as we move through this season. We have always maintained a close relationship with the Child Neurology Society (CNS); for the past 7 years ACNN has been actively managed by CNS's administrative offices. Both ACNN and CNS have realized great growth and success over these years – to the point where CNS no longer has the capacity to provide these services for us.

What does this mean for ACNN? It means releasing the old to make way for the new. It means finding a new association management company to shepherd us into our next chapter. It means change. But this also means opportunity, growth, and the possibility of continued prosperity.

I'll be the first to admit that this past year has been challenging for ACNN. Between navigating our relationship with CNS and the limited resources available, individually dealing with a global pandemic, quickly pivoting to an all-virtual conference, and searching for our next management partner, the ACNN board members and volunteer committee members have been stretched in ways we never thought possible. Regardless, we stay committed and focused on our members and providing value in membership. Likewise, we ask that you stick with us through this temporary tumult.

As we move into 2021, we will be transforming ourselves – shaping an ACNN that is more responsive to members, has a clear vision and mission, and expanded member offerings. We look forward to continuing our close, collaborative relationship with CNS while simultaneously creating a distinct organization, serving nurses that are in the service to children with neurological disorders. More details will be shared at our all-member annual business meeting during the upcoming conference.

Last, I want to invite everyone to join us for our first-ever virtual Annual ACNN Educational Conference, October 19-21, 2020. It is sure to be filled with timely clinical updates and thought-provoking presentations. Come learn with us. To ensure full access beginning Monday morning, October 19, I urge you to register one week ahead of time (by October 12) by clicking <https://www.badgeguys.com/reg/2020/cnsv/registeracnn.aspx>. Those registering for the ACNN Conference will also have free access to the CNS-ICNA Joint Meeting (other than NDC Symposium; extra course fee required); a separate URL/log-in is required: To ensure full access beginning Monday morning, October 12, I urge you to register by October 8 if interested in attending CNS-ICNA, and by October 12 if attending only ACNN.





Association of Child Neurology Nurses Claire Chee Nursing Excellence Award 2020

Jennifer McCrave RN, BSN, CNRN
Boston Children's Hospital, Boston, MA

The Association of Child Neurology Nurses (ACNN) is pleased to award the 2020 Claire Chee Nursing Excellence Award to Jennifer McCrave RN, BSN, CNRN. Jennifer has been a nurse at Boston Children's Hospital for the past 22 years in the neurology clinic. She has served as Clini

Jennifer graduated from Brockton Hospital School of Nursing. She furthered her education receiving an Associate of Science Degree from Fisher College and Bachelor of Science degree from Curry College.

Jenn has worked closely with Dr. Sahin in the multidisciplinary Tuberous Sclerosis Program. Dr. Sahin stated: "She is a passionate advocate for the patients and their families and has helped to initially develop and now expand our multidisciplinary program." As a result of her collaborative work a social worker and educational specialist were added to the program. Her efforts with this population were recognized by the Tuberous Sclerosis Alliance and she was invited to apply for a position on the TS Alliance Professional Advisory Board. She currently serves on the TS clinic committee.

Over her many years at Boston Children's one of her supervisors, Deborah Shiers, described Jen as a "compassionate crusader. She strives to bring optimal wellness for both the patient and the family, while managing the effects of disease and navigating the most complex of systems. She has led many initiatives to improve patient safety and quality of care that have been adopted by many across the organization."

As the Clinical Coordinator for the Neurology clinic she is responsible for subspecialty program development, overseeing the day to day operations of the clinic, managing schedules and completing performance reviews. She serves as a mentor to new staff and has inspired and trained many of the neurology nurses. She has functioned as the research nurse on several clinical trials. She has been involved in several performance improvement projects within the Neurology Department, such as the Magnet Recognition Project. She has been involved with multiple committees and projects at Boston Children's.

She has been recognized for her expertise with the Tuberous Sclerosis population and role as clinic coordinator. She was selected as the nurse coordinator's voice on the TSC Clinic Focus group which is evaluating the TSC Clinic standards of care, patient survey metrics, and clinic structure. She has received several awards at Boston Children's including the Daisy Award in 2010, Excellence in Nursing Leadership Award in 2013 and the Mark Proctor and Scott Pomeroy Neuroscience Nursing Excellence Award in 2017.

Organized, kind, efficient, an extraordinary leader and mentor is how Jen is described by her co-workers. "She is such an integral part of the care that I provide to my patients that it is hard to imagine how we would function without her," stated Dr. Sahin.

Dr Basil Darras reported "Jen goes beyond her call of duty, she even works on evenings and weekends, if needed, to close the loop on certain cases; highly responsible and effective!" A quote from a patient summarizes Jen's compassion and commitment to the care of her patients: "Nurse Jen, or as we call her "Z's girl", has been with us since his diagnosis. Jen has been our guiding light and she's never faltered. Nurse Jen has walked us through the most uncharted of territories, and she's always done it with care....but most importantly she has done it with encouragement, patience and care....Jen doesn't stop there; she makes time to check on me and always finds a way to put me at ease when I feel helpless. I don't think we would have made it through without nurse Jen, our guiding light." Jen McCrave is an exceptional child neurology nurse. She has dedicated her career to the care of children with neurological conditions and works to improve their lives. Jen embodies the characteristics of the Claire Chee Nursing Excellence Award and is a highly deserving recipient.



Association of Child Neurology Nurses 2020 Nurse Practitioner Excellence Award

Dianne Kulasa-Luke, APRN-CNP, PNP-BC
Akron Children's Hospital, Akron, OH

Dianne Kulasa-Luke, APRN-CNP, PNP-BC has worked since 2006 as a nurse practitioner at Akron Children's Hospital in Akron Ohio. She is the 2020 Association of Child Neurology Nurses Nurse Practitioner Excellence Awardee. She was nominated by Dr. Margaret McBride.

Dianne has provided leadership, teaching and excellent clinical care in the field of child neurology for her entire career. Starting out as a staff nurse caring for patients with neurological/neurosurgical needs she has continued to care for children with neurological issues in various settings.

She graduated with her Bachelor of Science in Nursing from The Ohio State University. She continued her education at Ohio State and received her Master of Science in Nursing – Clinical Specialist track. She attended University of Akron's Post masters courses and completed her Pediatric Nurse Practitioner Program there.

Dianne has been a teacher since early in her career. As clinical leader he is responsible for the orientation of the nurse practitioners new to neurology. She continues to act as a preceptor for nurse practitioner students. "Dianne has contributed to the understanding and knowledge of nurses and physicians caring for children with neurologic problems," according to Dr. McBride. A new advanced practice provider in the group was noted as saying, "her advice is always so helpful. Her energy and compassion make us want to be like her."

Dianne cares for a complex group of patients and is an integral part of the new seizure and complex seizure clinic. She has participated in other clinics as needed. She acted as the TBI nurse practitioner for several months. The coordinator of the program noted: "Although this area was outside of her usual experience, she was able to assess the complex patients and make referrals to psychology or neuropsychology as necessary. She was able to discern whether there was a psychological overlay in the patients with prolonged post concussive symptoms. She addressed the multiple sequelae seen in TBI including mood changes, sleep problems, headaches and academic difficulties. She was able to determine who needed close follow up. She was very knowledgeable."

Dianne is supportive of patients and families. Families turn to her for questions and concerns. "She has the ability to get to the heart of an issues and share her solutions and thoughts in a supportive and collegial way," noted one of her colleagues.

She is as avid learner. Whether researching information to update a lecture or preparing for journal club she is always looking for new information to enhance her knowledge base. She shares this information with colleagues. One colleague note: "Her documentation is sophisticated. She seeks out opportunities to advance her own knowledge and expertise in neurology. In a recent care conference, she was the one to cite the new ILAE Epilepsy Classification system published last month, having already found and attended a seminar on how to use it and having already begun to use it in practice." It should be noted here that she regularly attends conferences and seminars.

Dianne was nominated for "Best in Nursing" by the American Health Council. In 2017 she was recognized by Akron Children's Hospital for published authors from 2015-2016 and 2018-2019. She is involved in several professional organizations including Association of Child Neurology Nurses (ACNN), American Epilepsy Society, American Academy of Neurology (AAN), Ohio Association of Advanced Practice Nurses (OAAPN), Sigma Theta Tau and National Association of Pediatric Nurse Practitioners (NAPNAP). She has been involved with numerous committees with ACNN including planning, education and clinical practice. She was the Region 3 Coordinator.

She has delivered talks at local, regional, and national meetings. She is a sought after lecturer on neurological issues and has presented to students at University of Akron, and Kent State University in nursing, family studies, and child life programs. Dianne has devoted her entire career to the care and understanding of children with neurologic disorders. In addition to her numerous professional activities, she volunteers yearly with the local Epilepsy Association during Epilepsy Awareness Week. Dr. McBride noted: "Dianne's enjoyment of and dedication to her work is infectious. It is fun and a privilege to be her colleague." With this high praise, the Association of Child Neurology Nurses is honored to present the 2020 Nurse Practitioner Excellence Award to Dianne Kulasa-Luke.



Association of Child Neurology Nurses Innovative Practice Award

Nancy A. Auer, FNP-BC, APRN

Nationwide Children's Hospital, Columbus, OH

The 2020 Association of Child Neurology Nurses Innovative Practice Award recipient is Nancy A. Auer, FNP-BC, APRN. Nancy Auer along with Emily Newton Schreiber, PsyD and Mary Wojnaroski, PhD were instrumental in the development of a Multi-disciplinary Support Program for Children with Autism Undergoing a Refractory Epilepsy Evaluation at Nationwide Children's Hospital in Columbus, OH.

This project was a collaborative effort between Neurology, Developmental Psychology and the Autism Center at Nationwide Children's Hospital.

Studies have shown that 20-33% of individuals with autism spectrum disorder (ASD) develop epilepsy with approximately 10% becoming refractory (failing two medications). The needs of children with ASD can present unique challenges to procedures during a refractory epilepsy evaluation (REE). At Nationwide Children's Hospital from 2016-2018 33% of patients were admitted for REE were diagnosed with ASD, consistent with epidemiological data.

The goal was to create a quality support program that prepared children with ASD and their families for refractory epilepsy evaluation (REE) and help providers feel more comfortable when referring patients with ASD for REE. To our knowledge, we are the only center in the US that have created a program like this and has operationalized it successfully.

Getting the patient to be compliant with leaving leads on their skull or intracranially implanted ones for the necessary time can be a roadblock for some of these children. Not only was cooperation a concern, but the parents of the child were concerned about the care of their child. They were also concerned about if the procedure would be traumatizing for their child. Providers were concerned that this would not be successful and a more non invasive options might be best. Because of these concerns, REE was sometimes delayed in these children.

In developing the tiered behavioral support, parents, and health care workers were interviewed about previous experiences with REE and potential challenges for patients with ASD. Challenges were identified as: ASD symptoms and problem behaviors, specific medical procedures, parent/child expectations and preparation for admission, and inpatient provider' training experience and knowledge of patient's needs prior to admission. Data indicated that the greatest point of intervention may be preparation prior to the admission to identify and problem solve challenges for each individual child. Each child was placed into a tier. The tiered approach included the following:

Tier 1:

Caregiver interview, caregiver preparation discussion, team communication

Tier 2:

In addition to Tier 1 procedure, 2-3 preparation sessions for REE

Tier 3:

In addition to Tier 1, weekly appointments for systematic desensitization

Initially, it was difficult to identify patients with Autism being sent for REE. A "Hard Stop" question was developed in the electronic medical record to identify those children. The children with autism are then placed in a pool that is screened by the development psychologist or psychologist at the autism center and then triaged into a tier.

The program was implemented in January of 2020. From January 2020-March 2020 there have been 8 patients referred to this program; 100 % were able to complete their evaluation. In March 2020 the EMU was closed due to COVID-19 health concerns and re-opened in May 2020. We expect the numbers will increase once the EMU is opened. Providers are feeling more comfortable in referring patients with ASD for REE evaluation after implementation of this program.

Due to this program the children were able to successfully complete their REE. Thus, there was no loss of revenue for the EMU due to cancelled tests. The team is now looking at ways that his program may be having an impact directly on ASD children's medical care. They are looking at other ways this program could be implemented for children with ASD having long term monitoring. They are also looking at other ways the collaboration of Neurology and Psychology can help patients and families with epilepsy since psychological comorbidities of epilepsy are prevalent.

Supportive letters from Dr. Anup Patel (Neurology) and Dr. Eric Butter (Psychology) were provided with Ms. Auer's application for the Innovative Practice Award. Dr. Butter noted, "This interdisciplinary team has been able to facilitate important, high stakes medical evaluation for a population of children who may have not been referred as readily in the past due to barriers presented by their behavioral challenges." Dr. Patel commented, "It is innovative ideas like this quality improvement project that will help improve the care patients with epilepsy receive."

It is clear from the material submitted by Ms. Auer and the team that this program has led to improvement for both the patient/family and the institution, and that she is highly deserving of the 2020 Innovative Practice Award from ACNN.



Got a project
or colleague
working on a
project that you'd
like to see featured?

Send email to:
Dan Bonthius
(daniel-bonthius@uiowa.edu)
cc Roger Larson
(rblarson@childneurologysociety.org)



2020 Virtual+Vital ACNN Conference

October 19-21, 2020

ALL SESSIONS ARE LISTED IN PACIFIC DAYLIGHT TIME (PDT)

There may be last minute changes to the schedule due to the pandemic.

MONDAY, OCTOBER 19

9:00 AM - 9:15 AM

Welcome

9:15 AM - 10:15 AM

**Janet Brucker Keynote Address:
From Case Studies to Quality
Outcomes: The Role of the
DNP within the 21st Century**

Melissa Reider-Demer, NP
Ronald Reagan UCLA Medical Center
Los Angeles, CA

10:15 AM - 10:45 AM

Annual Business Meeting

10:45 AM - 11:45 AM

Break

11:45 AM - 12:15 PM

**Playing with FIRE(S): What We
Know and Don't Know About
Infection Related Epilepsy
Syndrome in Children**

Jennifer Coffman, JD, MSN, APRN,
CPNP-AC, CNRN
Children's Hospital Colorado, Aurora, CO

12:15 PM - 1:15 PM

Lunch

1:15 PM - 1:45 PM

**Talking to Your Patients and
Their Families About
Cannabidiol (CBD) for
Seizures Associated with
Tuberous Sclerosis Complex**

Jessica Krefting, RN, BSN
University of Alabama at Birmingham,
Birmingham, AL

E. Martina Bebin, MD, MPA

University of Alabama at Birmingham,
Birmingham, AL

1:45 PM - 2:15 PM

**Seizing the Opportunity for
Surgical Interventions**

Valerie M. Woodard, RN
Wake Forest Baptist Health,
Winston-Salem, NC

2:15 PM - 2:30 PM

Break

2:30 PM - 3:15 PM

Poster Review

TUESDAY, OCTOBER 20

8:30 AM - 9:30 AM

Genetics 101

Melissa Gibbons, MS, CGC
Children's Hospital Colorado, Aurora, CO

Kaitlin Angione, MS, CGC

Children's Hospital Colorado, Aurora, CO

Mackenzie Blaile, MS, CGC

Children's Hospital Colorado, Aurora, CO

9:30 AM - 10:00 AM

**Genetic Evaluation for Children
with Developmental Delay,
Intellectual Disability, and
Autism Spectrum Disorder**

Carolyn Dickinson, PNP-BC
University of Rochester Medical Center
Rochester, NY

10:00 AM - 10:15 AM

Break

10:15 AM - 10:45 AM

**GLUT 1-DS: Recognition of
Clinical Symptoms, Diagnosis,
and Treatment**

Rebecca Schultz, PhD, APRN,
CPNP-PC, FAES

Texas Woman's University, Houston, TX

10:45 AM - 11:15 AM

Awards





11:15 AM - 11:45 AM

Innovative Clinical Practice Award Presentation: Multidisciplinary Support Program for Children with Autism Undergoing a Refractory Epilepsy Evaluation

Nancy A. Auer, APRN
Nationwide Children's Hospital,
Columbus, OH

11:45 AM - 1:00 PM

Lunch

1:00 PM - 1:30 PM

An Introduction to Neuroimmunology

Patricia Plumb, RN, MSN
University Texas Southwestern, Dallas, TX

WEDNESDAY, OCTOBER 21

8:30 AM - 9:30 AM

Going Global: What Should we be Doing to Lift the Burden of Headache in our own Spheres?

Scott Turner, DNP
University of Alabama Birmingham
Birmingham, AL

Elizabeth K. Rende DNP, APRN,
CPNP- PC, PMHS-BC, FAANP
CentraCare Health, St. Cloud, MN

Samantha Weaver, MSN, PNP-AC
Children's of Alabama, Birmingham, AL

9:30 AM - 10:00 AM

The New Frontier in Headache Management in CGRP Medications

Annmarie Kropp, DNP
Children's Hospital Colorado, Aurora, CO

10:00 AM - 10:15 AM

Break

10:15 AM - 11:15 AM

Dysautonomia: The Myths and Pitfalls in Assessing and Managing this Complex Patient Population

Angelina Koehler, CPNP, MA
Children's Hospital Colorado, Aurora, CO

11:15 AM - 11:45 AM

While We are Sleeping, the Glymphatic System is Hard at Work: The Brain's Novel Waste Removal System

Elizabeth K. Rende, DNP, APRN,
CPNP- PC, PMHS-BC, FAANP
CentraCare Health, St. Cloud, MN

11:45 AM - 1:00 PM

Lunch

1:00 PM - 1:30 PM

How to Interpret the Black, Gray, White, and Bright: Neuroimaging Overview for Child Neurology Nurses and APPs

Kathleen Wetherell Griffin, RN, CPNP
Wake Forest Baptist Health
Winston-Salem, NC

1:30 PM - 2:00 PM

Pediatric Stroke Diagnostic Barriers and Emerging Care

Michele Grimson Mills, RN, MSN,
FNP-BC, PNP-AC
Ann and Robert H. Lurie Children's
Hospital, Chicago, IL

REGISTRATION FEES AND INFORMATION

ACNN Meeting Member
\$175.00

ACNN Meeting Non-Member
\$250.00

Neurobiology of Disease in
Children (NDC): TBI Course Fee
\$60.00

All ACNN registrants will have
access (on a separate website)
to Joint ICNA-CNS Meeting

**CLICK HERE
TO REGISTER**

Or go to
[https://www.badgeguys.com/
reg/2020/cnsv/registeracnn.aspx](https://www.badgeguys.com/reg/2020/cnsv/registeracnn.aspx)

CONNECTING WITH PARTNERS

Child Neurology Foundation (CNF)

2020 Pediatric Epilepsy Research Foundation (PERF) Elterman Research Grant Recipient



**Juliet Knowles,
MD, PhD**
Stanford University

**RESEARCH TITLE:
Targeting Aberrant Activity-Dependent
Myelination in Absence Epilepsy**

I am a practicing pediatric epileptologist and neuroscientist at Stanford University. My basic, translational and clinical research efforts are devoted to better understanding pathogenesis and identifying novel treatment approaches in pediatric epilepsy. My doctoral thesis in the laboratory of Dr. Frank Longo at Stanford elucidated the critical role of p75 neurotrophin receptor (p75NTR) signaling in Alzheimer's disease neurodegeneration, and demonstrated that small molecule ligands of p75NTR prevented and reversed neurodegeneration in rodent models of Alzheimer's – precursor findings to an ongoing clinical trial for Alzheimer's disease. Later, as a medical student in clinical rotations, I was particularly drawn to Pediatrics. I found Child Neurology to be a challenging but fulfilling combination of my two professional passions, Pediatrics and Neuroscience. I completed residency in Child Neurology and served as Chief Resident before moving on to a Pediatric Epilepsy fellowship, all at Stanford. As a clinician caring for children with epilepsy, I think about how seizures affect brain development and function, and how we might intervene upon those processes to provide more effective treatments. I am studying these questions in the lab, under the mentorship of Drs. Michelle Monje and John Huguenard. My post-doctoral work in rodent models demonstrated that absence seizures can induce abnormal myelination of the seizure network, which in turn contributes to disease pathogenesis. As an independent investigator, I will continue to study how seizures in various forms of pediatric epilepsy impact brain structure and function, and I will use these discoveries to test novel therapeutic strategies. My ultimate goal is to contribute to a new generation of disease-modifying therapies that improve the lives of pediatric patients with epilepsy.



2020 Pediatric Epilepsy Research Foundation (PERF) Shields Research Grant Recipient



**Youssef A. Kousa,
MS, DO, PhD
Children's National
Hospital**

RESEARCH TITLE: Identifying Genetic Risk Factors in Congenital Zika Syndrome

Youssef A. Kousa, MS, D.O., Ph.D., is a physician-scientist specializing in neonatal neurology at Children's National Hospital in Washington, DC. During pediatric internship, he founded an international, trans-disciplinary research team, the Zika Genetics Consortium, to study the 2015 Zika virus pandemic and model human genetic modifiers in neuroinfectious diseases and neurodevelopmental disorders. Dr. Kousa is the Principal Investigator of the Consortium, which now includes 19 co-investigators representing 13 different institutions. Partnering with the National Institutes of Health and Centers for Disease Control and Prevention, the Consortium is bringing together mother-infant dyad cohorts with 12,000 participants throughout the Western Hemisphere. Their goal is disease prevention by integrating and leveraging team science, systems biology, and genomics.

Dr. Kousa completed a combined pediatrics and child neurology residency at Children's National Hospital and the DO-PhD Physician Scientist Training Program at Michigan State University. Through graduate and post-graduate research training, he has focused on human genetics, genetic engineering, developmental biology, immunology, and virology. His accomplishments include creation of an adenovirus-based malaria vaccine, discovery of a conserved gene regulatory network in craniofacial and neural tube development, 30 peer-reviewed publications, and multiple national and international invited research presentations. His awards and honors span academic, research, service, and leadership roles, including the highest honors possible at Michigan State University for a graduate and medical student. Dr. Kousa directs the Perinatal Neuroinfections Clinic at Children's National Hospital and is an Instructor in Neurology, Pediatrics, & Genomics, and Precision Medicine at George Washington University School of Medicine, Washington, DC.

CONNECTING WITH PARTNERS

Child Neurology Foundation (CNF)

2020 NDD Summer Scholarship Recipient



Camille Corre
University of
Rochester School
of Medicine

RESEARCH TITLE:
**Investigating Cortical/Cerebral Visual
Impairment and Visual Processing Deficits in
Cerebral Adrenoleukodystrophy**

Camille Corre is a rising second year medical student at the University of Rochester School of Medicine and Dentistry. Her motivation for studying childhood-onset neurological disease is inspired by longstanding experience working with young people with disabilities in a rehabilitative setting, academic experiences in clinical research on rare neurological diseases, and a family history of facing a neurodegenerative diagnosis. For six summers throughout high school and college, she worked at the Massachusetts Hospital School (now the Pappas Rehabilitation Hospital for Children), a long-term residential school and hospital setting for children and young adults with disabilities. She completed an undergraduate degree in Biological Chemistry at the University of Chicago. She then spent two years as a clinical research coordinator studying conditions like X-linked adrenoleukodystrophy (ALD) in the Center for Rare Neurological Diseases at Massachusetts General Hospital. In child neurology, she is struck by the overlap between providing rehabilitative/palliative care that maximizes existing quality of life, and the development of neurologic interventions that fundamentally change disease course. This summer, with support from the NDD scholarship, Camille will explore the cortical visual impairment and visual processing deficits seen in early cerebral ALD. As the therapeutic landscape of so many childhood neurological diseases like ALD rapidly changes, Camille looks forward to caring for patients across the phenotypic spectrum and empowering them to embrace their abilities.



CONNECTING WITH YOUR FUTURE Personnel Registry

CNS PERSONNEL REGISTRY CALIFORNIA

STANFORD MEDICINE
SEE AD AT BOTTOM RIGHT.

PEDIATRIC NEUROLOGIST BC/BE – PALO ALTO FOUNDATION MEDICAL GROUP

Palo Alto Foundation Medical Group is seeking a full time BE/BC Pediatric Neurologist.

Location:
Dublin, CA

- Highlights:**
- Physician-led and collegial environment
 - Three existing Pediatric Neurologists with a high caliber support staff
 - Malpractice tail coverage

- Requirements:**
- BC/BE in Pediatric Neurology
 - Experience in electroencephalography interpretation and ability to perform inpatient consultation services is a plus

Palo Alto Foundation Medical Group
We are one of the largest multi-specialty medical groups in the country, made up of over 1,600 physicians in 40+ specialties, in practices throughout the San Francisco Bay Area. Our organization is nationally recognized for our excellence with multiple awards for quality of care, innovation and leadership.

Palo Alto Foundation Medical Group is affiliated with Palo Alto Medical Foundation, a not-for-profit health care organization, providing operational and administrative support, including the latest technology, allowing physicians to focus on delivering exceptional patient care.

We offer:

- Schedule flexibility and sabbaticals for work-life balance
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- Guaranteed salary for two years with production bonus
- Generous benefits package
- Shareholder eligibility after two years
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EEO Equal Employment Opportunity

Contact: MDcareers@pamf.org

Website: <https://www.sutterhealth.org/physician-opportunities/dublin/pediatric-neurology-2772>



POSITION DESCRIPTION:

The Department of Neurology and Neurological Sciences at Stanford University School of Medicine is seeking board-eligible or board-certified neurologists to join the Department as a Clinical Assistant Professor, Clinical Associate Professor, or Clinical Professor in the Clinician Educator line. Faculty rank will be determined by the qualifications and experience of the successful candidate.

The major criterion for appointment, reappointment and promotion for Clinician Educators is excellence in the overall mix of clinical care and clinical teaching appropriate to the programmatic needs the individual is expected to fulfill. Successful applicants will be encouraged to interact with the wide range of clinical, translational, and basic science programs at Stanford.

Responsibilities will include care of general and subspecialty neurology patients, and teaching of medical students, residents and clinical fellows. For qualified candidates, opportunities are available to participate in research, quality improvement, and development of innovative care programs. Faculty will work in our hospital and clinics at Stanford Health Care (SHC), Lucile Packard Children's Hospital (LPCH), and/or outreach sites in the San Francisco Bay Area.

QUALIFICATIONS:

Candidates must have an MD or equivalent. Fellowship training in a neurology subspecialty, such as autonomic disorders, general (comprehensive) child neurology, epilepsy, intraoperative neurophysiologic monitoring, movement disorders, neonatal neurology, neurobehavior, or neurocritical care, is highly desirable. Necessary qualifications include board certification or eligibility (ABPN), eligibility for a California medical license, and suitable clinical and teaching experience.

APPLICATION INSTRUCTIONS:

Review of applications will be conducted on a rolling basis.

Interested candidates should send a copy of their curriculum vitae, and a statement/ letter of intent outlining their specialty interest to the secure web portal listed below for each subspecialty:
Child Neurology: <http://apply.interfolio.com/78400>

Equal Employment Opportunity Statement

Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women, members of minority groups, protected veterans and individuals with disabilities, as well as from others who would bring additional dimensions to the university's research, teaching and clinical missions.

Contact:
<http://apply.interfolio.com/78400>

CALIFORNIA continued

PEDIATRIC NEUROLOGIST: \$315,000 | LIVE AND WORK IN SANTA BARBARA

A stable, independent not-for-profit healthcare organization in Santa Barbara is seeking a board-certified pediatric neurologist to join its team. This is a wonderful opportunity for an experienced physician to create a new service line and take ownership over the success of an innovative program.

Opportunity Highlights

- Outpatient and inpatient services with a manageable call schedule
- Four-day clinical workweek with moderate hospital census
- Beautiful clinic space with all of the latest technology
- Opportunity to Build A Practice In A Thriving Coastal Community

Nestled between the beautiful Pacific Ocean and the breathtaking Santa Ynez Mountains, Santa Barbara is a picturesque town for families and individuals alike to call home. With scenic views all around engaging festivities and activities throughout the year, you'll enjoy an ideal quality of life here.

Community Highlights

- A close-knit community with incredible housing options and charming neighborhoods
- Excellent public and private schools
- Ideal weather and consistent sunshine year-round, allowing for an abundance of outdoor recreation, including hiking, biking, surfing, sailing, and golfing
- An array of attractions, including a renowned downtown area, Stearns Wharf, a famous local courthouse, and pristine beaches
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U.S. News ranks California #7 in Best States For Healthcare

For immediate consideration please inquire with an updated copy of your CV so we can discuss the position by phone. Also, inform me of your best available times to speak. I look

forward to your reply and thank you for your review. Please do not delay as we anticipate a significant response.

Please contact: John Flynn at medcareers@merrithawkins.com or at (866) 406-0269 and reference PNE-118866

PEDIATRIC EPILEPTOLOGIST

At the Southern California Permanente Medical Group (SCPMG), a physician-led partnership organization with a patient-centered and evidence-based approach to medicine, we believe in giving every member of our community the opportunity to live a happy, healthy life. From the physicians we employ to the patients we serve our mission is to provide a level of care and support that enables each of us to achieve our best.

PEDIATRIC EPILEPTOLOGIST

San Diego, California

We are currently seeking a BC/BE Pediatric Neurologist who has fellowship training in Epilepsy.

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SCPMG is proud to offer its physicians:

- An organization that has served the communities of Southern California for more than 65 years
- A physician-led practice that equally emphasizes professional autonomy and cross-specialty collaboration
- Comprehensive administrative support
- An environment that promotes excellent service to patients
- A fully implemented electronic medical record system
- An excellent salary, comprehensive benefits and partnership eligibility after 3 years

We invite you to make a difference in the communities we serve.

For consideration or to apply, please visit our website at <https://scpmgphysiciancareers.com>.

For questions or additional information, please contact Michelle Schnorf at 866-285-5438 or Michelle.Schnorf@kp.org.

The Answer to Health Care in America.

UCSF FRESNO CHILD NEUROLOGY

UCSF Fresno Medical Education Program and Central California Faculty Medical Group (CCFMG) are currently recruiting for academic pediatrics faculty in neurology at the Assistant, Associate or Full Professor rank. The successful candidate must have completed a residency, be board-certified in pediatrics and completed subspecialty training in neurology care.

The responsibilities include teaching residents and students and providing specialty care to pediatrics patients. Interest or experience in patient-centered research is desirable. Academic rank and salary will be consistent with the successful candidates professional background. The UCSF Fresno Medical Education Program sees patients in a Regional Medical Center and has very successful faculty practice sites.

The program is based in Fresno, California, where residents enjoy a high standard of living combined with a low cost of living. The result is a quality of life uniquely Californian, yet surprisingly affordable. Limitless recreational opportunities and spectacular scenery is all accessible in a community with abundant affordable housing. While there is much to see and do in Fresno, the city is ideally located for fast, convenient getaways to the majestic Sierra (just 90 minutes away) as well as the scenic Central Coast, just two and one-half hours away. Fresno is the only major city in the country with close proximity to three national parks, including renowned Yosemite National Park.

Please apply online at: <https://aprecruit.ucsf.edu/JPF02979>

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UC San Francisco seeks candidates whose experience, teaching, research, or community service has prepared them to contribute to our commitment to diversity and excellence.

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CNS PERSONNEL REGISTRY

DISTRICT OF COLUMBIA

PEDIATRIC NEUROLOGIST/ PEDIATRIC EPILEPTOLOGIST

MedStar Georgetown University Hospital (MGUH) seeks a Pediatric Neurologist/ Pediatric Epileptologist to join our growing pediatric neurology service based in a multidisciplinary clinical, academic and research environment. The individual selected will provide patient care, teaching and consultative services in both an ambulatory and inpatient setting and join a collaborative team of clinicians specializing in epilepsy, stroke, neurogenetics, as well as sleep medicine.

Our division works closely with MedStar Georgetown's Neurosciences Center of Excellence, which is home to MGUH's Epilepsy Center, the first Level Four Epilepsy Center in Washington, DC. Current pediatric service lines include general child neurology, epilepsy, pediatric stroke and rehabilitation, neuromuscular and neurodegenerative disorders, movement disorders, and sleep disorders. Physician will oversee bedside long-term EEG monitoring, routine EEG and Video EEG monitoring. If appropriate for level of experience, intraoperative neurophysiologic monitoring is also available.

Position includes faculty appointment at Georgetown University commensurate with experience, opportunity for teaching and research along with

competitive compensation and a generous benefits package.

Qualified candidates must hold a MD/ DO degree and be Board Certified/ Board Eligible in Pediatric Neurology. For the Epilepsy Position, board certification is required. Candidate must be able to obtain medical licensure in Washington, D.C. and Maryland and possess demonstrated clinical expertise in pediatric neurology and epilepsy. Strong interpersonal skills and the ability to work collaboratively with other professionals to advance clinical programs is essential.

As the largest healthcare provider in Maryland and the Washington, D.C., region, MedStar Health's programs and services are recognized regionally and nationally for excellence in medical care. With 10 hospitals, the MedStar Health Research Institute, and MedStar Medical group and urgent care centers, our 30,000 associates and 6,000 affiliated physicians proudly care for more than half-million patients each year across the region. MedStar Georgetown University hospital is a not-for profit, acute-care teaching and research hospital with 600 beds located in the heart of the Nations capital. Visit us at <http://www.medstargeorgetown.org> MGUH is an Equal Opportunity Employer.

CVs may be sent to dian.p.saunders@gunet.georgetown.edu

CNS PERSONNEL REGISTRY

FLORIDA

PEDIATRIC NEUROHOSPITALIST / JOHNS HOPKINS ALL CHILDREN'S HOSPITAL IN ST. PETERSBURG, FLORIDA

**Pediatric Neurohospitalist
Johns Hopkins All Children's Hospital
in St. Petersburg, Florida**

Johns Hopkins All Children's Hospital (JHACH) in St. Petersburg, Florida is recruiting an additional pediatric neurohospitalist for our rapidly expanding Child Neurology Program. Our 259-bed teaching hospital has been ranked as a *U.S. News & World Report* Best Children's Hospital in 8 pediatric specialties including Neurology and Neurosurgery (2020-2021). JHACH is the only US hospital outside of the Baltimore/Washington,

D.C. location that is part of the Johns Hopkins Medicine system. This is an employed position with All Children's Specialty Physicians, a growing group practice that includes more than 200 physicians. Pediatric neurohospitalists will work a schedule of 7 days on - focusing on neurology consultations in the pediatric NICU, PICU, pediatric floor, and EC. The service week is followed by 7 days off. The following week entails seeing hospital and Emergency Center (EC) follow-up patients in the continuity clinic. We seek a well-trained child neurologist who is comfortable providing a wide spectrum of pediatric neurology care including long term EEG with video. Clinical neurophysiology trained neurologists are encouraged to apply.

As members of the Johns Hopkins All Children's Institute for Brain Protection Sciences, our pediatric neurologists also regularly draw upon the expertise of specialists in neurosurgery, neuroradiology, neuro-oncology, psychiatry, genetics, neuropsychology, and neuropathology. This multidisciplinary institute unites clinicians, researchers and educators in a comprehensive program to promote optimal neurodevelopment early in life and provide state-of-the-art care for children with injuries or illness that can affect the brain. Johns Hopkins All Children's Hospital is designated a NAEC Level 4 epilepsy center. The \$100 million Research and Education Building houses our graduate medical education and simulation programs, as well as an expanded biorepository. It has been designed to promote education and research collaboration with our other core institutes: Heart, Maternal, Fetal & Neonatal, and Cancer & Blood Disorders. Members of the faculty consistently participate in the education of Neurology and Pediatrics residents and our Neuro-Oncology fellowship provides faculty with additional opportunities for teaching and research.

In addition to providing clinical care, participation in research will be strongly supported and encouraged. Qualified candidates may be eligible for an academic appointment at Johns Hopkins University School of Medicine (academic rank is open and commensurate with experience).

FLORIDA continued

We offer a competitive salary and benefits package including relocation assistance, paid vacation, paid time and expenses for CME, 403(B) self-contribution retirement plan, medical malpractice insurance with tail insurance, short and long-term disability coverage, and life insurance and health benefits.

The Tampa-St. Petersburg area offers year-round sunshine, abundant cultural and recreational activities, national sports venues, excellent schools and an affordable cost of living. We are centrally located to many of Florida's amenities, only minutes from beautiful gulf beaches, 90 minutes from Orlando and four hours from Miami.

To confidentially learn more details, please contact:

Joe Bogan

**Providence Healthcare Group
(817) 424-1010 (Direct)
jbogan@provd.com**

UF HEALTH REGIONAL PHYSICIAN (PEDIATRIC NEUROLOGIST) – PENSACOLA, FLORIDA

At UF Health, together, we strive to create unstoppable momentum toward the goal of improving individual and community health through discovery, clinical and translational science and technology, exceptional education and patient-centered, innovative, high-quality health care. At the heart of our mission is to provide high-quality clinical care and to promise every patient their best experience possible.

UF Health Regional Physicians with The Studer Family Children's Hospital at Ascension Sacred Heart in Pensacola, Florida seeks a second Pediatric Neurologist. The practice will provide inpatient consultation services, reading of inpatient and outpatient EEGs and outpatient follow-up clinic. In addition to clinical care, opportunities for Pediatric Resident education and research projects

exist. This is an outstanding opportunity to be a part of a patient-centered, collegial group committed to delivering high-quality clinical care. The selected candidate(s) will enjoy a market-based, competitive salary and comprehensive benefits package.

UF Health represents the shared vision and commitment to patient care excellence of more than 22,000 employees of the University of Florida Health Science Center and UF Health Shands health care system. With campuses in Gainesville and Jacksonville, UF Health includes six health colleges, nine research institutes and centers, two teaching hospitals, two specialty hospitals and a host of physician medical practices and outpatient services throughout north central and northeast Florida. Our mission is to promote health through outstanding and high-quality patient care; innovative and rigorous education in the health professions and biomedical sciences; and high-impact research across the spectrum of basic, translational and clinical investigation. The UF Health Regional Physicians Network represents the extension of our spectrum of patient-care services to regional community under the University of Florida's College of Medicine.

The Studer Family Childrens Hospital celebrated its 50th year in 2019 with the opening of a new Childrens Hospital. The Childrens Hospital has a full complement of pediatric subspecialties and support programs. Through UF Health and Ascension Sacred Heart, we are staying on the leading edge of children's healthcare. Our mission is to promote health through outstanding and high-quality patient care; innovative and rigorous education in the health professions and biomedical sciences; and high-impact research across the spectrum of basic, translational and clinical investigation. The UF Health Regional Physicians Network represents the extension of our spectrum of patient-care services to regional communities under the University of Florida's College of Medicine.

Pensacola is a beautiful and vibrant coastal city in the western Florida panhandle. The family-friendly city has a flourishing downtown and waterfront, numerous outdoor activities and cultural offerings, and the #1 beach in Florida according to USA Today. With a low cost of living and no state income tax, Pensacola has something to offer everyone.

The University is an equal opportunity, affirmative action employer committed to non-discrimination with respect to race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinions or affiliations, genetic information and veteran status in all aspects of employment including recruitment, hiring, promotions, transfers, discipline, terminations, wage and salary administration, benefits, and training.

Contact:

**Kevin Bogert
bogerk@shands.ufl.edu**

CNS PERSONNEL REGISTRY ILLINOIS

JOIN A GROWING CHILD NEUROLOGY PRACTICE AT A MAGNET-DESIGNATED HOSPITAL IN IL

Carle Physician Group is seeking additional BE/BC Pediatric Neurologists to join our established practice in Urbana, Illinois.

Practice Opportunity Details Include:

- Level III Perinatal services and Level III Epilepsy Center accredited by the National Association of Epilepsy Centers (NAEC)
- 100% child neurology practice
- Call consists of only Pediatric Neurology patients
- Established sleep program
- Onsite MRI and CAT scanning equipment
- Referral base from more than 20 general Pediatricians
- Pediatric subspecialists include Critical Care, Surgery, Cardiology, Neurosurgery, Pulmonology, Gastroenterology, Genetics, Urology, Pediatric Psychologists, and Developmental-Behavioral

- Excellent benefit package: health/dental/life insurance, 403-B plan with employer match, LTD, relocation allowance, CME allowance, and paid malpractice insurance with 100% tail insurance covered
- 24 hour in-house coverage provided by Anesthesia, Intensivists, Trauma, and ED; Pediatric Hospitalist & PICU are available 24/7
- Dedicated Neonatal and Obstetric air and ground and Pediatric transport services
- Two Neurosurgeons (one is a BC Pediatric Neurosurgeon), a Neuro-ophthalmologist, six adult Neurologists, and two Neuropsychologists on staff
- 24-hour telephone nurse advisory system in place to help ease demands of call
- Flexible scheduling
- Experienced support staff
- Teaching and research opportunities are available with the University of Illinois College of Medicine and the Carle Illinois College of Medicine
- Carle Illinois College of Medicine is the nation's first medical school focused at the intersection of healthcare and engineering

About Carle:

Based in Urbana, IL, The Carle Foundation is a vertically integrated system with more than 9,500 employees in its five hospitals, multi-specialty physician groups, health plan and associated healthcare businesses including the Carle Illinois College of Medicine, the world's first engineering-based medical school. Carle is proud to be named a Great Place to Work. Carle Foundation Hospital and Carle BroMenn Medical Center hold Magnet designation, the nation's highest honor for nursing care and Carle Foundation Hospital (CFH) ranks as one of Americas 50 Best Hospitals by Healthgrades.

Contact:

Reyna Lute
reyna.lute@carle.com

CNS PERSONNEL REGISTRY INDIANA

PEDIATRIC NEUROLOGIST

Peyton Manning Childrens Hospital at Ascension St. Vincent (Indianapolis) Pediatric Neurologist

Peyton Manning Childrens Hospital at Ascension St. Vincent is seeking a Pediatric Neurologist for our hospital in Indianapolis. Our ideal candidate will be comfortable with child neurology including epilepsy and inpatient and outpatient care.

Practice Highlights:

- Schedule: Monday-Friday 8am-5pm
- Call Schedule: 1 in 4 weeks, once every 4th night, 1:4 weekends
- Home to 300 Pediatric Specialists
- Largest level IV NICU and Pediatric ER in the state
- Opportunity to expand program and nationwide system referral base
- Full support of the world's largest catholic healthcare system
- The most specialized care in the state in one of the country's largest cities
- Physician-led organization
- Largest nonprofit health system in the country

Ascension St. Vincent offers a very competitive compensation package that includes: Competitive base salaries, Relocation allowance, CME, Comprehensive health benefits, Retirement savings plan (403b) with match, Malpractice with tail coverage and generous paid time off.

Peyton Manning Childrens Hospital at Ascension St. Vincent is part of Indiana's largest not-for-profit health system with 22 ministries and over 3000 physicians. Features include: a free-standing tertiary care, pediatric hospital with 40 private inpatient beds and 6 short stay beds, staffed in-house 24/7 by our Pediatric Hospitalist group; a 23-bed PICU staffed 24/7 by Pediatric Intensivists; a 17-bed Pediatric Emergency department staffed 24/7 by Pediatric Emergency physicians; and Indiana's largest Level IV NICU with 96 beds staffed 24/7 by Neonatologists.

Interested?

Contact Seth Turner, Physician Recruiter (317) 338 6064 or Seth.turner@ascension.org

PEDIATRIC NEUROLOGIST

Peyton Manning Childrens Hospital at Ascension St. Vincent is seeking a Pediatric Neurologist for our hospital in Indianapolis. Our ideal candidate will be comfortable with child neurology including epilepsy and inpatient and outpatient care.

Practice Highlights:

- Schedule: M-F 8am-5pm
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- Home to 300 Pediatric Specialists
- Largest level IV NICU and Pediatric ER in the state
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Interested?

Contact Seth Turner, Physician Recruiter (317) 338-6064 or Seth.turner@ascension.org

CNS PERSONNEL REGISTRY MASSACHUSETTS

INPATIENT/OUTPATIENT PSYCHIATRY

Baystate Health (BH), home of the University of Massachusetts Medical School-Baystate, has an outstanding Psychiatry opportunity available to fit your schedule. Whether you want to work part-time, full-time, or per diem. BH wants to work with you to find the right fit and schedule that works for your life!

Opportunities are available for physicians in a variety of practice settings ranging from our:

- Large academic medical center including our well-established Psychiatry Residency Program
- Award winning community hospitals and growing group practices in urban, suburban, and rural areas
- Inpatient and outpatient adult or child psychiatry opportunities, working with high performing multidisciplinary teams
- Locations include Ware, Springfield, Westfield and Greenfield, MA

At Baystate Health, we value the skill and commitment you make to your patients. Our well-resourced staff is comprised of Psychiatrists, Psychiatric nurses, Psychologists, Psychiatric Social Workers and Masters prepared specialists, Occupational and Recreational therapists and unit counselors.

Baystate Health offers a very competitive compensation package that includes generous salary, paid time off, full medical benefits and CME reimbursement and time allowance.

Candidates must be BC/BE by the American Board of Psychiatry. Role modeling of exceptional clinical, teaching and communication skills in a collaborative and multidisciplinary environment is expected.

Baystate Health was named one of Americas Best employers by State in 2019 by Forbes. Ranked 14th out of 74 top employers in Massachusetts, Baystate Health is one of New England's leading healthcare systems and the largest employer in the region.

**For more information, please contact:
Ariana Caradiaz, Physician Recruiter**

Telephone: 413-794-8701 Fax: 413-794-5059 Email: Ariana.Caradiaz@baystatehealth.org

Baystate Health is an Equal Opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, marital status, national origin, ancestry, age, genetic information, disability or protected veteran status.

CNS PERSONNEL REGISTRY MISSOURI

PEDIATRIC EPILEPSY FELLOWSHIP

The Epilepsy Fellowship at Children's Mercy Kansas City (CMKC) is an ACGME-accredited one-year exclusive pediatric epilepsy program that focuses on developing the skills of interpreting electroencephalogram (EEG), and evaluation/treatment of epilepsy across the pediatric spectrum including children requiring epilepsy surgery, VNS implantation, and ketogenic diet therapy. CMKC features a Level 4 comprehensive epilepsy center for the management of intractable epilepsy and surgical evaluation.

The Epilepsy Section at the Children's Mercy is a multi-disciplinary team led by eight Board certified/eligible pediatric epileptologists, five adult epileptologists, three pediatric neurosurgery faculty, and two pediatric epilepsy neuropsychologists. CMKC serves >5000 clinic patients in the epilepsy clinic a year and has an eight-room Epilepsy Monitoring Unit with over 700 studies and 3000 routine EEGs annually. More than 250 children participate in a Ketogenic diet, and neuromodulation programs with over 60 implantations yearly. Our large epilepsy surgery program includes a LASER ablation program with a wide variety of over 30 cases per year. We are one of the few pediatric centers with Intraoperative monitoring program with over 25 monitored cases per month.

Training includes an electroencephalograph (EEG) findings Conference, 2-weeks intensive EEG course, Seizure Semiology Conference, Epilepsy MCQs discussion, Epilepsy Book club, Journal Club, and Epilepsy lecture series.

Inquiries regarding the program can be directed to Rachel Laws at rmlaws@cmh.edu

EXECUTIVE DIRECTOR OF THE THOMPSON CENTER FOR AUTISM AND NEURODEVELOPMENTAL DISORDERS & THOMPSON ENDOWED CHAIR IN CHILD HEALTH

The University of Missouri-Columbia, the flagship, land-grant, comprehensive research university of the University of Missouri System started a national search for the for the Executive Director of the Thompson Center for Autism and Neurodevelopmental Disorders and seeks nominations and applications. The successful candidate will also hold the Thompson Endowed Chair in Child Health and will provide visionary leadership to the Centers interdisciplinary programs and oversee faculty, staff, and programs. Reporting to the Executive Vice Chancellor of Health Affairs the Executive Director will build on the existing world-class programs and expand upon continued growth and broad impact for families, professionals, and trainees.

Inaugurated in 2005 with a generous gift from William and Nancy Thompson / The Thompson Foundation the Thompson Center is a nationally recognized clinical, training, and research center founded to improve the lives of individuals and families affected by autism spectrum disorder and neurodevelopmental disorders through world class programs that integrate research, clinical service delivery, education and public policy.

The Thompson Center is a cohesive, multi-disciplinary home to over a 100 faculty, staff, and students from diverse backgrounds. Thompson Center research is supported by a well-established research core and database and supports a variety of federal and industry sponsored trials. The Center is also part of several multi-site projects and data collection initiatives.

Research program growth is a major, strategic initiative of the Center and the University of Missouri overall, with a new emphasis on precision health.

The Center provides care for approximately 4,000 patients each year across 15,000 visits. Families from across the state of Missouri and beyond are served by 14 clinical sub-specialties. In addition to clinical breadth, the Center provides training for students in applied behavior analysis, medical, psychology, and therapy programs.

We are welcoming applications from individuals with an exceptional academic record and a strong background in externally funded clinical and translational research paired with the expertise to grow and develop programs and strategize innovative solutions. We are seeking an active collaborator with commensurate administrative experience to successfully lead trans-disciplinary and trans-institutional projects and programs and nourish a collegial and inclusive environment.

For more information on the position please refer to:

<https://www.umsystem.edu/ums/hr/tmr/executive-director-thompson-center>

Considerations:

The University of Missouri is fully committed to achieving the goal of a diverse and inclusive community of faculty, staff, and students. We seek individuals who are committed to this goal of collaboration and inclusion and value the many unique qualities and experiences a diverse environment offers.

Contact:

Partnering in the search is Anna Wiedermann, Senior HR Consultant for the University of Missouri System. Inquiries can be sent to umhrexecutivesearch@umsystem.edu

CNS PERSONNEL REGISTRY
NEVADA

PEDIATRIC NEUROLOGIST

Exciting opportunity to join and help grow the only pediatric neurology practice in town!

Due to expansion, we are seeking an additional BC/BE pediatric neurologist to join a successful, well-established group providing pediatric neurology services to Las Vegas and surrounding communities for nearly 25 years. In addition to serving patients through local offices, the practice provides pediatric neurology services to three regional hospitals including Sunrise Children's Hospital, Mountain View Hospital and University Medical Center of Southern Nevada. The practice is supported by EEG techs and medical assistants.

The suburbs of Las Vegas are very family friendly. Housing is reasonable, there is no state income tax, property taxes are very low and outdoor activities are endless and incredible. The weather is fantastic and there are actually some great restaurants. If you are into hockey, football and baseball, we have you covered with professional sports teams. For water activities, check out Lake Mead.

Benefits

Our clinicians enjoy a competitive compensation package with many locations offering sign on bonuses, relocation and tuition reimbursement.

Our benefits include:

- Health (various options), life, vision, dental and disability insurance
- 401(k) with annual matching program
- Advanced and continuing medical education
- Leadership training and advancement opportunities
- Employee stock purchase plan at a 15% discount
- Professional liability insurance
- Support and payment for mandatory license/s and hospital credentialing

These benefits are for full time employees, employees in other types of employment classifications may be eligible for some of these benefits.

About MEDNAX

With a 40-year record of success, MEDNAX has grown from a single medical practice to a trusted health solutions partner. As part of our national medical group, we give you the tools you need to build the career you want, and the flexibility to adapt as your personal needs and professional interests change.

We invite you to grow with us and help shape the future of health care.

MEDNAX is an Equal Opportunity Employer

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or veteran status

Apply Here: <http://www.Click2apply.net/79d2ykhr4kh9c7w4>

PI121440887

CNS PERSONNEL REGISTRY
NEW JERSEY

PEDIATRIC NEUROLOGIST, BC/BE – FULL TIME, CAPITAL HEALTH

Position Highlights:

- Immediate volume available
- 100% pediatric neurology opportunity
- Patient-centered environment supported by cutting-edge technology
- Dedicated pediatric ED with long-term monitoring capabilities
- Teaching and research opportunities available
- Achieve work/life balance with minimal on-call responsibilities

Our Physicians Enjoy:

- Competitive salary and full benefits package
- Six weeks of paid time off
- One week of CME
- Occurrence malpractice insurance
- Employer-paid licensure fees

The Capital Institute for Neurosciences is a center for advanced neuroscience care in central NJ serving New Jersey, Pennsylvania and the Delaware Valley. The Institute includes a dedicated neuro ICU, state-of-the-art neuroendovascular suite, neuro OR, stroke unit and the first Mobile Stroke Unit in the region.

NEW JERSEY continued

The Institute is part of Capital Health, a two-hospital system that includes a hospital in Pennington, NJ and a high-acuity hospital in Trenton, NJ that includes the system's Joint Commission Comprehensive Stroke Center and Trauma Center. Employed physicians are part of Capital Health Medical Group, which is a large, multispecialty group of over 450 providers.

About Capital Health:

Capital Health is the region's leader in providing progressive, quality patient care with significant investments in our exceptional physicians, nurses and staff, as well as advanced technology. Comprising two hospitals (our Regional Medical Center in Trenton and Capital Health Medical Center Hopewell), our Hamilton outpatient facility and various primary and specialty care practices across the region, Capital Health is a dynamic healthcare resource accredited by The Joint Commission.

To learn more about us and submit CV, please visit <http://www.capital.attnhr.com/jobs/197367/>

EOE

CHILD NEUROLOGY OPPORTUNITY

K. Hovnanian Childrens Hospital Jersey Shore University Medical Center

Hackensack Meridian Health is seeking a BE/BC, fellowship trained Child Neurologist at Jersey Shore University Medical Center/K. Hovnanian Children's Hospital located in Neptune, New Jersey. This is a great opportunity to live in a desirable coastal location with excellent schools and easy access to New York and Philadelphia.

The successful candidate will have a commitment to outstanding pediatric care. They will join an established team and enjoy a busy clinical practice along with teaching, research, administrative and supervisory opportunities.

Position Details

- Employed position with competitive compensation and robust flexible benefits package

- 45 Bed Inpatient Unit
- 10 Bed Pediatric Intensive Care Unit
- 35 Bed Level III Neonatal Intensive Care Unit
- Pediatric Sedation Service
- 24/7 Pediatric Emergency Department
- Level II Pediatric Trauma Department
- Certified Child Life Specialists
- HOPE Tower new state-of-the-art pediatric outpatient offices
- Additional Pediatric Subspecialty Services pediatric neurosurgery, behavior/development, hematology/oncology, pulmonology, endocrinology, infectious diseases, nephrology, rheumatology and genetics
- Pediatric Residency Program
- Pediatric Neurology Residency Program
- Academic Appointment to the Hackensack Meridian School of Medicine

Submit your CV for immediate consideration to: carol.petite@hackensackmeridian.org or call 732-673-5000

CNS PERSONNEL REGISTRY NEW MEXICO

CHIEF OF THE DIVISION OF CHILD NEUROLOGY: SEEKING A VISIONARY LEADER FOR AN ACADEMIC OPPORTUNITY IN ALBUQUERQUE, NEW MEXICO

The University of New Mexico School of Medicine and the Department of Neurology is seeking a board-certified or board-eligible child neurologist to serve as the division chief of child neurology. This position includes research and collaboration opportunities, both in basic science and clinical research

The successful candidate will be trained in child neurology and have a strong track record of administrative accomplishments and program-building experience.

IDEAL CANDIDATE

- Excellent clinical skills required the incoming director will be expected to participate in clinical activities within the UNM Hospital Child Neurology Program
- Great communication skills desired

- Ability to work collaboratively in an interdisciplinary setting preferred
- Experience teaching house staff and medical students desired

A beautiful and vibrant city, Albuquerque is filled with a diverse culture and distinctive traditions. With consistent sunshine throughout the year, accompanied by painted skies and gorgeous mountain views serving as your everyday backdrop, you'll find yourself basking in an incomparable quality of life.

COMMUNITY HIGHLIGHTS

- A cost of living lower than the national average
- Some of the top public and private schools in the state
- Endless opportunities for outdoor activities, including skiing, hot air ballooning, golfing, hiking, rock climbing, and biking
- An incredible arts scene as well as an array of local shopping and dining options

For immediate consideration please inquire with an updated copy of your CV so we can discuss the position by phone. Also, inform me of your best available times to speak. I look forward to your reply and thank you for your review. Please do not delay as we anticipate a significant response.

Please contact Jay Torio at medcareers@merrithawkins.com or at 866-406-0269 and reference PNE-122402

CNS PERSONNEL REGISTRY NEW YORK

COLUMBIA UNIVERSITY CHILD NEUROLOGY RESIDENCY PROGRAM

The Division of Child Neurology (led by Dr. Cigdem Akman) at Columbia University Irving Medical Center (CUIMC) has an unexpected opening in the upcoming PGY3 Child Neurology residency program. We are inviting applications for the position. Child Neurology at CUMC is a division of the nationally #2 ranked Neurology Department at CUIMC and cares for patients in the top ranked childrens hospital in New York City.

The Child Neurology Residency program at CUIMC is one of the oldest and most established training programs in the country. The division is a well-recognized center for epilepsy and epilepsy surgery, tuberous sclerosis, neuromuscular disorders, neuroimmunology, autism and headache disorders in children, as well as many other subspecialties of child neurology. The training program will include a robust exposure to basic, translational and clinical research in addition to a comprehensive clinical experience in both outpatient based and hospital based child neurology.

Applicants will have to have completed at least two years of a pediatrics residency and will spend 36 months training in child neurology. 12 of these months are spent rotating in adult neurology. Full licensure to practice medicine in the United States is required.

Interested applicants should send the required documents to Ericka Ayala, Graduate Medical Education Specialist

Email: ea2753@cumc.columbia.edu

1. CV
2. Personal Statement
3. USMLE Scores
4. Medical School Transcript
5. 3 Letter of recommendation

Robert Fryer MD PHD
Program Director
Division of Child Neurology
Columbia University Irving Medical Center
New York City, NY 10032
Email: fryer.robert@columbia.edu
Phone: 212-342-2919

PEDIATRIC NEUROLOGIST

Mount Sinai Health System Seeking Pediatric Neurologists (Academic)

The Mount Sinai Health System has openings for full-time pediatric neurologists to join our nationally ranked Division of Pediatric Neurology. Applicants are sought at any rank (Assistant, Associate, Professor) with an academic appointment at the Icahn School of Medicine at Mount Sinai that is commensurate with experience and resume. The chosen candidate must have excellent clinical skills and an interest in outpatient and inpatient pediatric neurology.

Job Description

Mount Sinai's outstanding team of 10 pediatric neurologists have specialized interests in epilepsy, movement disorders, stroke, neurobehavioral disorders, multiple sclerosis and autoimmune encephalitis, as well as general pediatric neurology throughout the Mount Sinai Health System in Manhattan.

Pediatric neurology faculty teach adult neurology residents, pediatric residents, and medical students at the Icahn School of Medicine at Mount Sinai during their clinical rotations in pediatric neurology. In addition, the Division is preparing an application to ACGME for a pediatric neurology fellowship training program.

Mount Sinai Kravis Childrens Hospital is a comprehensive tertiary children's hospital. *U.S. News and World Report* consistently selects Mount Sinai Kravis Childrens Hospital as one of the best children's hospitals in the nation. In the 2018-2019 annual edition of Best Childrens Hospital report, Kravis ranked in five pediatric specialties. It includes a pediatric epilepsy monitoring unit and an active pediatric epilepsy surgical program.

We offer a competitive salary and benefits package.

Please send your CV, a brief statement of interest, and the names of three referrals to:

Alex Cano, DASPR
Executive Director, Physician Recruitment
Mount Sinai Health System
Alex.cano@mountsinai.org

CHILD NEUROLOGY OPPORTUNITY

The Department of Neurology at Albany Medical College seeks BC/BE Neurologists to expand the Division of Pediatric Neurology. Applicants with an interest in general child neurology as well as those with fellowship training in epilepsy to expand the services offered by our comprehensive epilepsy center are both welcome. Albany Medical Center, the only academic medical center in northeastern New York, is a private, non-profit organization serving over 3 million people. The Department of Neurology has established programs in epilepsy, dementia, movement disorders, neuromuscular disease, pediatric neurology, pain management and stroke/neurocritical care. Successful applicants will have a commitment to patient care and supervision of medical students and residents, and a desire to work in a collaborative environment with neurology and pediatric colleagues.

Albany Medical College is part of Albany Medical Center, northeastern New York's only academic health sciences center, which includes Albany Medical Center Hospital, one of upstate New York's largest teaching hospitals. Located at the heart of New York's Capital Region, Albany is a culturally and environmentally diverse area. The Capital Region offers great opportunities for professionals and families.

Please send inquiries and a C.V. to:
Valerie DALoia
Physician Recruitment Coordinator
Albany Med Faculty Physicians
(518) 262-1333
Fax: (518) 262-6996
daloia@mail.amc.edu

To learn more about the capital region please visit www.amc.edu/greatplace

Albany Medical College is a private institution and a non-discriminatory AA/EOE (minorities and women are encouraged to apply).

CNS PERSONNEL REGISTRY
NORTH CAROLINA

**CONE HEALTH IS SEEKING
A BC/BE CHILD NEUROLOGIST**

CHMG Pediatric Specialists is seeking a BC/BE Child Neurologist to expand current child neurology coverage in Greensboro, NC. The group offers primarily outpatient child neurology services with occasional inpatient consults and a reasonable call schedule. Reading EEGs is essential with an onsite EEG lab in the office.

CHMG Pediatric Specialists offer Dietitian, Integrated Behavioral Health Clinician, along with incorporating pediatric residents in the clinic. Direct participation with Neonatal Developmental Follow up clinic and/or Pediatric Complex Care is an option if interested. There is flexibility to pursue additional interests related to subspecialty training.

Minimum qualifications include: Board Certification or Board Certification within 5 years of completing training) in Pediatrics and Neurology, obtaining full medical license with North Carolina Board of Medicine, full DEA registration, and active privileges with Cone Health. Preferred skillset/experience: Baclofen and VNS therapies.

Cone Health achieves some of the highest quality outcomes in the U.S. supported by our Physician Engagement. Cone Health is a large not-for-profit 6-hospital system with 1200+ beds, 3 outpatient surgery centers, and a primary and specialty care physician network. As a teaching facility for Pediatric Medicine, Family Medicine, and Internal Medicine. as well as participation in numerous research trials, Cone Health offers patients access to the latest developments in medical care and is a recognized leader in cardiology, neuroscience, oncology, trauma, and rehabilitation. Please visit www.conehealth.com.

Greensboro NC is a growing community of more than 280,000 people with a referral base of 500,000+, located in the central part of North Carolina. For weekend getaways, it is an easy drive

to the Blue Ridge Mountains and the beaches NC, SC, and VA. Please visit <https://www.visitgreensboronc.com/>

For more information contact and/or email your CV to:

**Rebekah Driggers, MBA
Director, Cone Health Physician &
Provider Recruitment
(336) 663-5054
rebekah.driggers@conehealth.com**

PEDIATRIC NEUROLOGIST

Novant Health Pediatric Neurology is seeking a caring and compassionate General Pediatric Neurologist to join our rapidly growing pediatric specialty team. This position is located in Charlotte, NC with satellite locations in the south and north market of Mecklenburg County.

This full-time position will involve seeing general neurology as well as epilepsy patients as part of a pediatric neurology practice. This physician will act as lead for the outpatient and inpatient pediatric neurologists working closely with the clinic administrator to achieve system goals.

Novant Health Pediatric Neurology is primarily outpatient with hospitalist duties for Novant Health Hemby Childrens Hospital and is part of large pediatric multispecialty system with an excellent built in referral base.

The practice has several locations in the south and north market of Mecklenburg County, centrally located in Charlotte, NC.

The physician will help to rotate coverage for the pediatric inpatient floor, PICU, NICU, and pediatric emergency department for one-week rotations with 4 other neurologists

Along with the NH Adult Neurology and Sleep service line, NH Pediatric Neurology is associated with an NAEC level IV epilepsy center offering adult and pediatric epilepsy monitoring.

The physician will participate in EEG reading for the outpatient pediatric EEG lab and the hospital system

Leadership Duties:

The responsibilities of the leadership team will include creating and sustaining aligned clinic culture, reducing

unwarranted clinical variation, financial planning, oversight of day to day clinic operations, and driving strategic change. Lead clinicians will also serve as the connection point for bidirectional communication between clinic providers and medical group leadership. In partnership with clinic administrators, lead clinicians are responsible for:

- Helping develop a common vision and purpose for the clinic that supports community needs and Novant Healths mission, vision and values
- Partnering with medical group leadership to develop positive office culture
- Understanding and communicating concepts necessary for the operational success of the clinic including quality care, safety, accessibility, financial responsibility and customer service
- Serving as an effective role model and transformational leader
- Providing leadership in teamwork development and provider wellness
- Overseeing efficient operation of patient care in the office
- Sharing accountability with the clinic administrator to achieve the financial and budgetary goals of the clinic
- Counseling individual providers on issues such as In Basket management, coding, clinical quality, behavior, attendance and patient complaints

Contact: <http://careerswith.com/NovantNeurologist>

CNS PERSONNEL REGISTRY
OHIO

PEDIATRIC STROKE FELLOWSHIP

Nationwide Childrens Hospital Department of Neurology and The Ohio State University College of Medicine are pleased to announce a Pediatric Stroke Fellowship.

This one-year program will allow trainees to gain extensive knowledge and experience in the diagnosis, care and treatment of pediatric stroke. Trainees will have exposure to the Nationwide Childrens Stroke and Vascular Anomalies Clinic, as well as rotations through various departments within Nationwide Childrens and OSU.

Please visit our website for more information:
<https://www.nationwidechildrens.org/for-medical-professionals/education-and-training/fellowship-programs/pediatric-stroke-fellowship>

ACADEMIC PEDIATRIC NEUROLOGIST OPPORTUNITY, CLEVELAND, OHIO

The Division of Pediatric Neurology and Epilepsy at University Hospitals Rainbow Babies & Childrens Hospital in Cleveland Ohio is recruiting for a Pediatric Neurologist at the assistant professor level. The Pediatric Neurologist will provide clinical care to children with complex neurological disorders working closely with a dynamic team of pediatric neurologists and epileptologists. Clinical activities will be carried out at Rainbow Babies & Childrens ambulatory and inpatient sites, and at University Hospitals outpatient clinics. The Pediatric Neurologist will be encouraged and supported to engage in investigation/research and scholarly activities. Opportunities exist to conduct research in a variety of areas including clinical and translational research, education, outcomes/quality improvement, and medical informatics. There is infrastructure and support for clinical and translational research both within the Division and within the Department of Pediatrics. In addition to clinical service and research responsibilities, there is an expectation for academic work including education, administration/service, as well as advocacy.

Qualified candidates must be Board Eligible/ Board Certified in Pediatric Neurology. The selected candidate will receive a faculty appointment at Case Western Reserve University School of Medicine at the academic level commensurate with experience and qualifications.

University Hospitals offers a competitive salary and benefits program and productivity incentives. The Department offers faculty development and mentoring program designed to help faculty succeed in translational or basic research.

The Cleveland area offers an incredible quality of life with a growing economy, rich cultural scene with ballet, theatre, symphony, opera and museums, outstanding restaurants, and a moderate cost of living. The city is well-known for its

sports teams and incredible metro park system for any outdoor enthusiast. To learn more about Cleveland, Ohio, visit <http://www.thisiscleveland.com/>

Interested individuals can apply for the position by sending their cover letter and curriculum vitae to Asim Shahid, MD at Asim.Shahid@UHHospitals.org. For additional information about the position, please contact him by email at Asim.Shahid@UHHospitals.org.

Rainbow Babies & Childrens Hospital is a patient focused center distinguished by collaboration, excellence, leadership, and respect. We value candidates who are committed to

fostering and furthering the culture of compassion, collaboration, innovation, accountability, diversity, integrity, quality, and trust that is integral to our mission To Heal. To Teach. To Discover

Contact:
Asim Shahid
asim.shahid@uhhospitals.org

CNS PERSONNEL REGISTRY
OKLAHOMA

THE CHILDREN'S HOSPITAL OF SAINT FRANCIS
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PEDIATRIC NEUROLOGIST

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SAINTFRANCIS.COM/CAREERS/PHYSICIANS

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PENNSYLVANIA

PEDIATRIC NEUROLOGIST

St. Lukes University Health Network, the region's largest, most established health system, a major teaching hospital, and one of the nation's 100 Top Hospitals is seeking a passionate BC/BE Pediatric Neurologist to join our Pediatric Neurology practice providing excellent care at St. Lukes University Health Network.

St. Lukes pediatrics department is growing and expanding our offering of services. We are seeking providers who are excited by growth and new opportunities. Join St. Lukes Pediatric Neurology as our second pediatric neurologist! Help us shape the future of pediatric services in our region through the addition of new pediatric subspecialists, new locations and increased inpatient capabilities!

In joining St. Lukes University Health Network you'll enjoy:

- Substantial compensation and a rich benefits package, including malpractice insurance, health and dental insurance, & CME allowance
- Starting bonus and relocation assistance
- Work/life balance & flexibility
- Team-based care with well-educated, dedicated support staff
- A culture in which innovation is highly valued
- Professional support and growth within the network
- Teaching, research, quality improvement and strategic development opportunities

Highlights include:

- A growing pediatric specialty department currently spanning 12 pediatric subspecialties and continuing to expand in both depth and breadth of services.
- Inpatient, primary care and specialty care providers across a variety of practice locations. The current inpatient unit is an 18 bed unit located at St. Lukes University Hospital in Bethlehem, PA.

- Consistently growing pediatric volumes and a strong Network commitment to expanding pediatric services within the community.
- The Networks first Pediatric Intensive Care Unit opening in early 2020 at St. Lukes University Hospital, Bethlehem and will receive admissions from all St. Lukes campuses.
- The most robust and highest volume OB program in the region with a strong maternal and fetal medicine program which delivers nearly 4,000 babies per year.
- 23 bed Level III NICU located at St. Lukes University Hospital in Bethlehem, PA, 8 bed Level II NICU at St. Lukes Allentown Campus and NEW 26 bed Level III NICU at St. Lukes Anderson Campus.
- 11 hospital Network spread over a diverse geographic area providing emergency care for over 317,000 patients annually.
- Opportunity to read EEGs from our robust 11 hospital Network.

About St. Lukes University

Health Network:

Founded in 1872, St. Lukes University Health Network (SLUHN) is a fully integrated, regional, non-profit network of more than 15,000 employees providing services at 11 hospitals and 300 outpatient sites. With annual net revenue greater than \$2 billion, the Networks service area includes 11 counties: Lehigh, Northampton, Berks, Bucks, Carbon, Montgomery, Monroe, Schuylkill and Luzerne counties in Pennsylvania and Warren and Hunterdon counties in New Jersey. Dedicated to advancing medical education, St. Lukes is the preeminent teaching hospital in central-eastern Pennsylvania.

Contact:

Christine Figler
Christine.Figler@sluhn.org

PEDIATRIC NEUROLOGIST

St. Christopher's Hospital for Children is seeking a full-time Pediatric Neurologist to join the hospital's Section of Pediatric Neurology. As a partnership between Tower Health and Drexel University, SCHC is a 188-bed, nonprofit facility that provides exceptional care to children throughout the Greater Philadelphia area and surrounding counties and suburbs of New Jersey.

The applicant should have excellent clinical and communication skills with a strong interest in teaching. Candidates with additional training in Epilepsy or Neurophysiology are welcome to apply for this position.

The successful physician will possess a strong commitment to excellence in delivery of care, research, education, and advocacy. The Section of Neurology provides a full spectrum of outpatient and inpatient services, including inpatient video and ambulatory EEG services.

HIGHLIGHTS:

- The Section has a categorical 5-year Child Neurology fellowship with two fellows per year
- An Academic affiliation through Drexel University College of Medicine with ample opportunities for teaching, mentorship, and academic career development
- Opportunity to pursue research interests, in particular as they relate to our multicultural community and clinical setting
- With more than 220 pediatric experts on staff, SCHC combines top-notch pediatric care with a wide array of pediatric specialties, including Cardiology, ENT, GI, Oncology, and Orthopedics.
- The only Verified Pediatric Only Burn Center between New York City and Baltimore
- 1 of 3 Level I Pediatric Trauma Centers in Pennsylvania
- Magnet® designated hospital and recognized as a Women's Choice Award Best Children's Hospital

For more information please contact:

Ellen Delgado
Medical Staff Recruiter | 610-334-3394
Ellen.Delgado@towerhealth.org |
towerhealth.org

CNS PERSONNEL REGISTRY
TENNESSEE

**GENERAL PEDIATRIC NEUROLOGY,
PRIVATE PRACTICE**

Child Neurology Services, P.C., in Knoxville, TN, is seeking an additional board eligible/certified pediatric neurologist.

Our independent, private practice is associated with East Tennessee Children's Hospital, a comprehensive medical center in the Tennessee Valley with more than 100 pediatric sub-specialists, including pediatric neurosurgery and genetics, serving patients throughout the East Tennessee region.

This is an opportunity to join a well-established practice due to an upcoming retirement. As the only neurology practice in the area dedicated solely to pediatric patients, our child neurologists are committed to providing children with mild to complex neurological conditions an exceptional level of care. We provide a mix of inpatient and outpatient care, including coverage of the PICU, NICU, and hospital floors. We offer scheduled inpatient and outpatient EEG monitoring. Call is shared equally by all four physicians.

Knoxville offers a blend of small-town southern charm and big-city opportunity. We are known for our hospitality, affordability, and convenience. Nestled in the foothills of the Great Smoky Mountains, Knoxville sits on the banks of the Tennessee River and offers outdoor enthusiasts a wealth of possibilities. There are over 50 miles of multi-use trails in the Knoxville Urban Wilderness and an expanding array of local breweries and restaurants, many of which can be reached by Knoxville's growing greenways. As a college town housing the University of Tennessee, this area offers great educational opportunities and is a wonderful place to raise a family and continue your medical career.

For confidential consideration, please forward your formal CV to jessica.sheah@gmail.com.

CNS PERSONNEL REGISTRY
TEXAS

PEDIATRIC EPILEPTOLOGIST

**Child Neurology Epileptologist
Opportunity**

Cook Children's Medical Center and Health Care System, located in Ft. Worth, TX, has initiated a national search for a board certified/board eligible child neurologist with subspecialty training in clinical neurophysiology and/or epilepsy.

Cook Children's Medical Center is a not-for-profit, free standing, 443-bed quaternary care pediatric hospital that is consistently ranked by *U.S. News and World Report*. Although not academically affiliated, clinical research is an important program component supported by a multi-million dollar Neuroscience Research Endowment providing all necessary components for research development, data acquisition, analysis, and dissemination. Opportunities for teaching and faculty affiliation with the University of North Texas Health Science Center and Texas Christian University are also possible. For a closer look at our services please visit either of the following websites: www.arcuate.org or www.cookchildrens.org/neurology

Cook Children's is committed to securing an epilepsy specialist whose professional, social, and economic interests would lend themselves to a long-term, cultural fit within the institution, the medical staff, and the community. The candidate will join a seasoned epilepsy team dedicated to improving the care of children in our region through cutting-edge surgical procedures, novel investigative trials, and quality epilepsy care.

Other Programmatic Highlights:

- Joining group of 18-Pediatric Neurologists. Enjoy support from 8-Advanced Practice Providers,
- 4-Pediatric Neurosurgeons and 3-Neuropsychologists. Enjoy an average of 4 call weekends per year and 2-3 weekday calls per month

- Earning potential above the 90th percentile of MGMA
- 10-bed epilepsy monitoring unit and active epilepsy surgery program (average 40 surgeries/yr)
- Available technologies include 3T and intraoperative-MRI, Magnetoencephalography, PET, SPECT, fMRI, TMS, and HD-EEG
- Expertise in minimally invasive surgical procedures including Stereo-EEG, Laser Interstitial Thermal Ablation, and Endoscopy
- Specialty clinics for ketogenic diet, genetic epilepsy, infantile spasms, and adult epilepsy transition of care
- Dedicated Neuro-ICU with 10 rooms wired for EEG monitoring

26-bed state-of-the-art Neuro-Rehabilitation unit located next to the Neurosciences offices

- More than 25,000 patient encounters, 2300 evaluations for newly diagnosed epilepsy, 1350 long term video-EEG and over 3700 outpatient EEG in 2019
- First hospital in the country to establish dedicated Pediatric DBS program and to have Clearpoint Intraoperative iMRI system
- Established comprehensive headache program, stroke program, movement disorder program, and genetic epilepsy clinic

Minimum qualifications:

Incumbent must have completed an accredited pediatric specialty training program and be board certified/board eligible in child neurology with subspecialty training in clinical neurophysiology and/or epilepsy. Particular interest and training in epilepsy surgery is preferred, with research experience favored.

Must be qualified to obtain an unrestricted Texas Medical License before commencing employment.

Contact:

Debbie Brimer
debbie.brimer@cookchildrens.org

TEXAS continued

PEDIATRIC HEADACHE FELLOWSHIP, BAYLOR COLLEGE OF MEDICINE

Baylor College of Medicine Department of Pediatrics, Section of Child Neurology offers a one year United Council for Neurological Subspecialties (UCNS) accredited fellowship in headache medicine. It is currently the only headache fellowship program in Houston, and one of few in the state. While it is a pediatric headache focused fellowship, adult neurology candidates may apply.

Contact:

Irene Patniyot
Irene.Patniyot@bcm.edu

OUTSTANDING CHILD NEUROLOGY OPPORTUNITY

On behalf of the Cook Children's Health Care System (CCHCS) located in Dallas/Ft. Worth, Texas, CareerPhysician, a national leader in child health leadership consultation, is pleased to announce the inception of a national search for qualified candidates to lead its newly created child neurology outreach location in Lubbock, TX.

This position is part of a strategic relationship between CCHCS and Covenant Childrens Hospital in Lubbock. The candidate will be responsible for outpatient neurology care and inpatient consultations at Covenant Childrens Hospital. Subspecialty clinics for epilepsy and movement disorders will be provided monthly by staff from the main campus with telemedicine consultations available for additional neurological subspecialty care as required. Call responsibilities will be shared by Cook Childrens neurologists serving West Texas with additional call support from main campus faculty.

CCHCS is a not-for-profit, nationally recognized pediatric health care organization comprised of a Medical Center, Physician Network, Home Health company, Pediatric Surgery Center, Health Plan and Health

Foundation. Cook Childrens Medical Center is a freestanding 443-bed quaternary care pediatric hospital that is consistently ranked by US News and World Report. The integrated system has more than 60 primary and specialty care offices throughout North and West Texas, serving a 23-county referral network. The Cook Children's Physician Network is the largest pediatric multi-specialty physician group in its service area with over 600 employed specialty and primary care providers. Our focus, first and foremost, is delivery of easily accessible, well-coordinated, comprehensive evaluation and treatment for children with neurological diseases through patient-centered care. Although not a university-based program, clinical research is an important program component supported by a multi-million-dollar Neuroscience Research Endowment providing all necessary elements for research development, data acquisition, analysis, and dissemination.

Key Programmatic Highlights:

- Joining a specialized regional group of 18-Child Neurologists, 8-Nurse Practitioners, 4-Pediatric Neurosurgeons, 1 Physiatrist and 3-Neuropsychologists
- Opportunity for appropriate candidates to lead the groups Child Neurology efforts in West Texas
- Subspecialty support from Cook Childrens Justin Neurosciences Center with nationally ranked programs in Epilepsy, DBS, Movement Disorders and Headache
- Access for your patients to a 10-bed epilepsy monitoring unit and active epilepsy surgery program (average 40 surgeries/yr) with available technologies including 3T and intraoperative-MRI, Magnetoencephalography, PET, SPECT, fMRI, TMS, and HD-EEG on the main campus.
- Ability to follow your patient with access to a 26-bed state-of-the-art Neuro-Rehabilitation unit located at main campus in Fort Worth.
- Participate in established comprehensive clinical and research programs in headache, stroke, movement disorder and epilepsy.

If appropriate with interests and training, ability over time to design and establish

an epilepsy monitoring unit at Covenant Childrens Hospital.

Weekend and evening call coverage limited to 1 in 4 weekends and evenings.

Interested candidates will have faculty appointment and teaching opportunities with Texas Tech University providing instruction for medical students and neurology residents.

Highly competitive compensation and benefits package including:

- Base salary at the 80th percentile.
- WRVU productivity-based incentive program.
- Salary will be guaranteed for the first 2 years of employment.
- Signing Bonus for qualified candidates.

Covenant Childrens Hospital:

Covenant Childrens is part of Covenant Health, and its parent Providence-St Joseph Health, which has a history of over 100 years of service to the West Texas/Panhandle Plains and eastern New Mexico region. Covenant Childrens is a 275-bed facility and is the only licensed freestanding children's hospital in the area. CCH operates a level IV NICU and is verified as the only level II Pediatric Trauma Center in the region. CCH is also a regional provider of high-risk maternal care. CCH has over 175 physicians on medical staff, representing nearly all major pediatric subspecialties (neurosurgery, neurology, cardiology, GI, ENT and ENT trauma, Endocrine, ID, Hem-Onc, Pulm, Adolescent Medicine, among others).

CCH plays an active role in the West Texas/Panhandle Plains regions provision of pediatric care via partnerships with regional facilities, primarily in the Midland and Odessa area via providing pediatric hospitalist services for two hospitals. CCH has also begun to partner with Texas Tech Health Sciences Center in Amarillo. Historically, CCH has a close relationship with Texas Tech University Health Sciences Center in Lubbock, with CCH acting as the primary teaching site for pediatric education for the Health Sciences Center. Each year CCH trains approximately 24 pediatric residents, with many providers also serving as faculty of TTUHSC, engaging in academic teaching,

and/or research.

Minimum qualifications:

Incumbent must have completed an accredited pediatric specialty training program and be board certified/board eligible in child neurology. Must be qualified to obtain an unrestricted Texas Medical License before commencing employment.

For more information about this outstanding position, please contact Marcel Barbey, Vice President, CareerPhysician, at (817) 707-9034 or via email at marcel@careerphysician.com for additional details. All inquiries and referrals are treated as and will remain highly confidential without your prior approval.

Cook Childrens Health Care System is an affirmative action and equal opportunity employer of individuals with disabilities and protected veterans.

**CNS PERSONNEL REGISTRY
VIRGINIA**

PEDIATRIC NEUROLOGIST

**Bon Secours Mercy Health
Pediatric Neurology
Richmond, Virginia**

Bon Secours Mercy Health is seeking a full time Pediatric Neurologist to join their team. Successful candidate will hit the ground running with a busy clinic seeing between 12-15 patients a day. This is a clinical Pediatric Neurology opportunity with no academic or research expectation. Physicians see a mix of cases including headaches, epilepsy and a variety of movement disorders. There is strong support from nurses, social work, and the pediatric sub-specialty program, including Endocrinology, Gastroenterology, Pulmonology and Surgery. Pediatric Hospitalists and Pediatric Intensivists handle admissions and daily rounding on in-patients. The clinic is located at St. Mary's, a large community hospital that has a dedicated Pediatric Emergency Department, NICU and PICU. Pediatric sleep studies are available for children 3 years and older, as is home and in-patient EEG monitoring and complete pediatric imaging services.

Qualifications:

- Board Certified or Board Eligible Pediatric Neurology
- US Citizen

Contact:

**Stacey Ellis
stacey_ellis@bshsi.org**

SLEEP MEDICINE PHYSICIAN

Childrens Specialty Group (CSG), PLLC is seeking a Sleep Medicine Physician to join our growing team of providers. The position offers inpatient and outpatient care for newborn through young adulthood. You will have the opportunity to work with a robust clinical research team in addition to teaching medical students and resident.

The position offers the administrative support of a large multi-specialty practice, competitive compensation, and a comprehensive benefits package that includes a 401k plan, profit sharing, health insurance, and professional liability coverage

CSG treat patients from southeastern Virginia to northeastern North Carolina as the sole providers of medical specialty care at CHKD, the only free standing childrens hospital in Virginia. CSG is a physician owned group whose mission is to provide direct high-quality healthcare to children and adolescents, train future physicians, and conduct research to improve childrens health.

For more information, contact Michael Strunc, MD at Michael.Strunc@chkd.org or visit our website csgdocs.com/careers.

**CNS PERSONNEL REGISTRY
WISCONSIN**

**EMPLOYED CHILD NEUROLOGY
PRACTICE WITH GUNDERSEN HEALTH**

The Department of Neurology at Gundersen Health System, based in La Crosse, Wisconsin, has an opportunity for a Child/Pediatric Neurologist. You will join colleagues in a comprehensive pediatric specialty practice, as well as colleagues in Neurology and the Neurosciences.

- Competitive Salary, Loan Forgiveness, Relocation, and Outstanding Benefits
- An innovative academic environment in partnership with the University of Wisconsin Medical School means you can enjoy the best of practicing in an academic medical center --teaching and research--in addition to patient care
- In a Physician led organization based on medical/administrative partnerships, managing all aspects of the business, you can have a voice in the way things work at Gundersen
- We were the first health system in the nation to offset 100 percent of our energy cost by renewable sources and sustainable practices
- We are a system with a 325-bed tertiary care center, regional hospitals, clinics, nursing homes, air and ground ambulances, eye clinics, a behavioral health hospital and more
- Participate in Gundersen Medical Foundation's Global Partners Program, working to create sustained connections with the Oglala Sioux Tribe on the Pine Ridge Reservation, S.D., and in Ytebon, Ethiopia, as well as engage in meaningful relationships with local schools to foster resilience in students, teachers and families
- Creating the life you want to lead. It's about more than technology and patient visits. It's about joining a team that shares your passion, your vision, and your commitment.

La Crosse is a historic, vibrant city nestled between bluffs and the legendary Mississippi River. The region boasts great year-round outdoor recreation, excellent schools including three universities, affordable housing in safe neighborhoods, an endless variety of live entertainment and breathtaking beauty, making this a great place to call home.

Please contact Cathy Mooney, Medical Staff Recruitment at camooney@gundersenhealth.org

WISCONSIN continued

EMPLOYED CHILD NEUROLOGY OPPORTUNITY WITH GUNDERSEN HEALTH

Join a Highly Collegial, Multispecialty, Physician led Integrated Health System!

The emphasis is NOT on RVU, but on putting patients first. We employ all of our physicians, and also offer a unique academic environment, affiliation and faculty appointment possible with UW Madison's School of Medicine.

Competitive Salary, Loan Forgiveness, Outstanding Benefits

La Crosse, WI is located in the Driftless Region of SW Wisconsin, along the Upper Mississippi River, where an outdoor lifestyle is complemented by great locally grown food, and a thriving arts and music scene!

Contact:

Cathy Mooney
camooney@gundersenhealth.org

CHILD NEUROLOGISTS

The Department of Neurology at the Medical College of Wisconsin (MCW) and Children's Wisconsin is seeking board-certified/board-eligible child neurology specialists in both general neurology and epilepsy.

MCW is a major national research center; the largest research institution in the Milwaukee metro area, and the second largest in the state of Wisconsin. In fiscal year 2017-2018, more than

\$253 million was invested in research, teaching, and training purposes, and more than 2,600 research studies were conducted. MCW is also a large and growing educational center with three campuses training over 1,000 medical students and is in the top 5 percent nationally in number of residents trained. Our Neurology group is the largest and most comprehensive in the state of Wisconsin, with residency programs in Adult Neurology, Child Neurology, Neuropsychology with fellowships in many subspecialty areas.

Children's Wisconsin is a 296-bed freestanding hospital and one of the busiest pediatric hospitals in the country. Certified as a Level I Trauma Center, there are 13 inpatient units including a 72-bed PICU and a 70-bed Level IV NICU. Our Pediatric Neurosciences Center is the largest and most comprehensive in the state and ranks among the nation's best by *U.S. News & World Report*. Our Epilepsy Center is a National Association of Epilepsy Centers (NAEC) accredited Level 4 epilepsy center and allows us to provide the highest level of complex and specialized care for children living with epilepsy. The epilepsy monitoring unit is a state-of-the-art evaluation center with 24-hour coverage by neurophysiology technicians and remote EEG reading capabilities. Our subspecialty clinics include: Epilepsy, First Seizure, Hypotonia, Brachial Plexus, Neuromuscular with an MDA and PPM care center, Neurogenetics and Fetal Concerns as well as a Pediatric Neurocritical Care Program

Milwaukee is the cultural and economic hub of Wisconsin. The city boasts a moderate cost of living and a four-season

climate. Milwaukee is home to major sports teams, a vibrant arts community, a beautiful lakefront and county park system, some of the best school systems in the nation and several Fortune 500 companies. Summer festivals and special events year-round make this a family friendly, culturally rich community.

General Position Requirements:

Board certified/eligible in Neurology with a special certificate in child neurology

Eligible for medical licensure in Wisconsin

Contact Info:

Matthew Harmelink, MD
Interim Division Chief, Child Neurology
Assistant Professor
Director, Pediatric Neuromuscular Program
Director, Child Neurology Residency
Department of Neurology
mharmelink@mcw.edu

We are an Equal Opportunity Employer and do not discriminate against any employee or applicant for employment because of race, color, sex, age, national origin, religion, sexual orientation, gender identity, status as a veteran, and basis of disability or any other federal, state or local protected class.

CNS PERSONNEL REGISTRY
CANADA

PEDIATRIC NEUROLOGIST

Pediatric Neurologist (1.0 FTE)
Dalhousie University & IWK Health Centre
Halifax, Nova Scotia

The Division of Neurology, in the Department of Pediatrics at Dalhousie University and the IWK Health Centre, invite applications for a full-time (1.0 FTE) academic position as a Pediatric Neurologist at the Assistant, Associate or Full Professor level. This individual will be one of a complement of 4 neurologists. The academic physician will primarily provide clinical service across the full spectrum of pediatric neurology providing tertiary level care for the only pediatric hospital serving the Maritime Provinces. Expertise or additional training in Neuromuscular disorders would be considered a strong asset.

The successful candidate will also be expected to participate in research and/or teaching activities in an academic environment; a developed interest in either would be considered an asset. The successful candidate will be expected to participate in the on-call coverage for general pediatric neurology.

The applicant must have an MD or equivalent, and be board certified in Pediatric Neurology (Canadian FRCPC or eligibility), and be eligible for licensure in the Province of Nova Scotia.

Interested candidates should submit a current CV and a statement outlining their academic, teaching and research interests. Candidates should also provide the names and contact information for three referees (at least two of which must be academic).

Dalhousie University and the IWK Health Centre are beautifully situated in the mature tree-lined South end of Halifax; a short walk to downtown and the vibrant boardwalk along Halifax Harbour. Halifax is a rapidly growing cosmopolitan port city and the capital of Nova Scotia. The city is alive with culture, heritage, tourism and embraced by the Atlantic Ocean.

Applications for this position will be accepted until November 1, 2020

To apply for this position, please go to:
<http://dal.peopleadmin.ca>

Dalhousie University is committed to fostering a collegial culture grounded in diversity and inclusiveness. The university encourages applications from indigenous persons, persons with a disability, racially visible persons, women, persons of a minority sexual orientation and/or gender identity, and all candidates who would contribute to the diversity of our community.

For more information, please visit <https://www.dal.ca/hiringfordiversity>.

Contact:
Paula Brna
paula.brna@iwk.nshealth.ca

**AD
PLACEMENT**

Ads may be placed in the *CNS Connections* magazine with rates for text-only ads beginning at \$250. Graphic ads begin at \$850 for 1/4 page (email/call for rates). Ads placed in newsletter may also be placed on CNS Website for \$75 (\$275 for non-members).

Deadline for placement in the next issue is **December 1, 2020.**

TO POST AN AD:
Go to www.childneurologysociety.org
Click "Post a Position"

TOGETHER • APART virtual2020

OCTOBER 12-23, 2020



16th International Child Neurology Congress
49th Annual Child Neurology Society Meeting

Sharing Knowledge
Sowing Friendships • Spreading Hope

Want CME Credit?

**Complete CME survey online immediately after
the meeting: October 23-November 2**