Fall/Annual Meeting 2016 | Volume 24, No. 3

CONNECTIONS

CHILD NEUROLOGY SOCIETY

Bringing CNS Members Together to Make Children's Lives Better

FORTY-FIFTH
CNS
ANNUAL MEETING

Vancouver Convention Centre
Vancouver, BC
October 26-29, 2016

CONNECTING WITH THE FUTURE

CHILD NEUROLOGY SOCIETY

From the President

Kenneth J. Mack, MD, PhD
President, CNS

Dear colleagues

Our fall meeting in Vancouver promises to be exceptional. Vancouver is a wonderful venue. A record number of abstracts were submitted and accepted, and a record number of pre-registrants have signed up to attend. Bernie Maria has put together another excellent Wednesday Neurobiology of Disease symposium, this year's topic is Neurofibromatosis I. A special thank you is owed to Marc Patterson and the Scientific Selection and Program Planning Committee for designing a current and eclectic conference. Some of the new additions this year include a symposium on neuro humanities led by Phil Pearl that will be offered as the Wednesday evening "NeuroNightCap" (with dessert and coffee) immediately following the Welcome Reception.

Also new this year are four CME sessions organized by Special Interest Groups in lieu of or as part of their SIG meetings The four CME sessions are: Education, Headache, Sleep and a collaborative effort involving the Neurogenetics and Neurovelopmental SIGs.

Bill Trescher and the Child Neurology Foundation are continuing an innovative session on Saturday afternoon that integrates basic science, clinical science and patient advocacy on the use of cannabis in epilepsy.

The bottom line is that we have a great program, a great venue and a wonderful opportunity to meet with our colleagues.

Our Child Neurology Society is also trying to actively engage with child neurology residents and fellows.

- All PGY3 residents entering their first year of neurology training were given a Trommer reflex hammer engraved with the CNS logo welcoming them into the field.
- Thanks to the generous and enthusiastic efforts of Renee Shellhaas, Elaine Wirrell and Phillip Pearl, we will be staging the first John M. "Jack" Pellock Resident Seminar on Epilepsy immediately prior to this year's annual meeting; 55 PGY5 residents are enrolled, most of whom will be staying on for the full meeting.
- The new Child Neurologist Career Development K-12 Award Program (CNCDP), headquartered at Kennedy Krieger under Mike Johnston's direction, will hold a two-day retreat prior to the CNS Annual Meeting with funding support from both the NIH and the CNS. This is something we hope will be an annual gathering as, over the next five years, the program trains 30 new academic-researchers. As with the Pellock Seminar, we are supporting and encouraging all participants to stay for the full CNS meeting.
- As always, we encourage trainees to attend the meeting, make presentations (first authors are given a full fee wavier), and become active and engaged members of a child neurology community that is growing in size and sophistication.

The CNS will soon be rolling out its new web-based lifelong learning platform featuring a regularly refreshed roster of on-line CME, Maintenance of Certification, and resident training modules available to members and non-members alike (with discounted rates for CNS members and annual meeting attendees). The first CME courses will be available for credit in late November.

I am excited about the 2016 Annual Meeting in Vancouver. It will be an excellent meeting with most of our colleagues in attendance. I look forward to seeing you there.

Ken Mack
President

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FALL/ANNUAL MEETING 2016

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CONNECTING WITH COLLEAGUES

In Memoriam:
Peter Berman, MD (1931 - 2016)

Our longtime friend and colleague in child neurology, Dr. Peter H. Berman, passed away September 1, 2016 after a massive myocardial infarction. Peter was the chair of pediatric neurology at Children's Hospital of Philadelphia (CHOP) from 1969-1994. He was the 16th President of the Child Neurology Society (1991-93), a past President of the Professors of Child Neurology, and in 2002 received the Society's highest honor, the Hower Award, at its 31st Annual Meeting in Washington, DC.

A native of Vienna, Austria, Peter fled the Nazi regime with his family and lived in the countryside around London before immigrating to New York's Upper West Side and, subsequently, completing his undergratudate education at NYU. He and his wife met in the Harvard medical library. As Lynne recalls, "he kept staring at me in the library." A resourceful researcher, even back then, when she got up to take a break, he went through her papers to learn her name, then called every university in Boston, finally locating her at Simmons College. Their first date was a night at the opera. The two married and had three children. Besides his wife, he is survived by sons, John and Michael, a daughter, Elizabeth, as well as six grandchildren and four nieces and nephews.

Dr. Berman earned his medical degree at New York University College of Medicine. He interned in pediatrics at Bellevue Hospital, New York City, and was a resident in pediatrics at the University of Minnesota Hospital, Minneapolis. He did his pediatric neurology training at Boston Children's Hospital and the Massachusetts General Hospital. He was board certified in child neurology and pediatrics. Following a two-year assistant professorship position in pediatric neurology at NYU, he was recruited by Lewis Rowland to CHOP as the second chief of Pediatric Neurology in 1969.

A prodigious researcher and author, Peter has published numerous important peer-reviewed articles in such diverse areas as: initial clinical trials of live polio vaccine (with Albert Sabin); classic neuropathology of neonatal meningitis, metabolic abnormalities in Lesch-Nyhan disease; correlation of measles and SSPE; relationship of rickets and anti-epileptic drugs; diagnostic value of EMG in infantile hypotonia; steroid responsive chronic inflammatory demyelinating neuropathy; phosphorus magnetic resonance spectroscopy in Duchenne dystrophy; and prognosis of neonatal seizures.

Peter was an incredible teacher, mentor, colleague, and a very valued friend. It is perhaps his legacy as an outstanding teacher and mentor that will sustain his memory for most of us. In fact, his son, Michael noted that "the thing that gave his father the greatest satisfaction professionally was teaching and working with residents in neurology. He loved it." His wife said he was drawn to medicine because he wanted to teach, adding: "He couldn't go into surgery because the mask itched his nose."

Peter went on his first sabbatical in the fall of 1994 after stepping down from his position as Chief of Pediatric Neurology at CHOP for the previous 25 glorious years. He enjoyed four wonderful months at Boston Children's Hospital, then went on to Miami Children's Hospital during the winter months and, finally, completed his year away from CHOP at the Maudsley Hospital in London.

Upon returning to Philadelphia, he realized that he was too young to retire (65 years old). He then entered the third stage of an incredible career. For the next 10 years, he participated in the epilepsy program at CHOP, spending a great deal of time in the EEG laboratory as well as caring for patients with epilepsy. Still not wishing to retire at age 75, he restricted his commitment to 50% time (but no night call). For the next nine years he continued to read EEGs and teach the residents.

During these nine years, he spent three months a year away from Philadelphia (during the winter months), living in Miami, not only for the sun and warm weather, but also for the opportunity to participate in the epilepsy program at Miami Children's Hospital. As anticipated, he was greatly appreciated by his colleagues at that center; the comments of his Miami colleagues mimicked those of his CHOP colleagues.

We polled several individuals asking for words and/or anecdotes which best describe Peter. Words included "affable," "wise," "warm," "supportive," "witty," and "forgiving." He was beloved by his trainees and his colleagues on the CHOP faculty. He will always be appreciated for his quiet and effective approach to the patient and extraordinary clinical skills. Few sights are more familiar and welcome at Child Neurology Society annual meetings than that of Peter Berman walking the halls, reviewing poster displays, conversing with longtime colleagues, or greeting one of dozens of former trainees who have gone on to play a prominent role in the continued growth and good fortune of the Society he helped found as a charter member in 1972.

Few sights are more familiar and welcome at CNS Annual Meetings than that of Peter Berman walking the halls, reviewing poster displays, conversing with longtime colleagues, or greeting one of dozens of former trainees who have gone on to play a prominent role in the continued growth and good fortune of the Society he helped found as a charter member in 1972.

Despite all the accolades given to him, Peter was quite humble, not fully appreciating his many contributions to the discipline of child neurology and the positive influence has had over the many trainees and colleagues. He stated in his opening comments of the Hower Award lecture, how "humbled and amazed he was to have served as CNS President between two giants in the field, Darryl De Vivo and Joe Volpe, and how honored he was to deliver his award lecture the day following the Sachs Lecture presented by Dr. Francis Collins."

Peter was not perfect, however. He had a wonderful knack of forgetting names, even of present trainees. Peter, at times, could be found wondering around CHOP corridors, concentrating in his own world, chewing on his left forearm or smoking his pipe (in the old days). It seems as if he was ignoring the external environment. (Very wrong!) He was indeed a very colorful person at CHOP. In typical "Peter fashion," he worked all day Wednesday, August 31 (he suffered a severe and fatal heart attack early the next morning), and was planning to renew his license in December 2016 with plans to continue teaching EEGs to the residents and attend the resident clinic.

Peter's legacy will live in our memories and, by our actions, we shall attempt to replicate all we learned from him directly and by his wonderful example.

Barry Russman, MD (first trainee and very close friend)

Gihan Tennekoon, MD (former colleague, former Chief of Pediatric Neurology at CHOP and very close friend)

Don Younkin, MD (colleague, head of CHOP training program and very close friend)

CONNECTING WITH COLLEAGUES

Q&A with Dr. Roy Elterman, President of the Pediatric Epilepsy Research Foundation (PERF)

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

QUESTION | ***What is the major focus of the Pediatric Epilepsy Research Foundation (PERF)?***

PERF's mission is to enhance the quality of life of children with epilepsy and other neurologic disorders. We have a specific desire to: 1) support efforts to improve treatment options for infants, children and adolescents with epilepsy; 2) support and reward meritorious clinical and basic science research related to epileptic condition in children, and 3) encourage the recruitment and education of young physicians in the field of child neurology. We feel the best ways to encourage these goals are to support infrastructure and network projects in child neurology along with the development of young investigators by funding their research.

QUESTION | ***Does PERF fund research into neurological problems outside of epilepsy?***

While PERF does have a preference for pediatric epilepsy projects, we are open to funding research in all areas of child neurology. An example is PERF's contributing support for this year's Shields Research Grant, awarded to Dr. Peter Tsai for his project entitled "Cerebellar-cortical circuits in autism spectrum disorders".

QUESTION | ***Why is PERF so interested in young investigators?***

PERF feels that the future of child neurology rests with our young members. Therefore, it is only reasonable that the development of these individuals into seasoned teachers and researchers should be a major goal of our foundation.

QUESTION | ***Is PERF equally interested in basic science and clinical studies?***

PERF is interested in funding basic science, clinical and translational research, although we feel a special affection for translational and clinical studies.

QUESTION | ***Besides funding research studies, does PERF also fund other kinds of projects?***

While PERF's major interest is in funding research, we do feel that there are other meritorious projects that warrant our attention. PERF has funded endowments to support medical school student scholarships and a chair in pediatric neurology at a major state institution. These efforts are directed at encouraging young people to enter medicine and educate them about the wonders of child neurology. We have funded pediatric neurology resident and fellow scholarships to attend Dr. Jackie French's "Pipeline Conference" in San Francisco, alternating annually with her "AED and Device Trials Meeting" in Miami. PERF has helped fund the development of the Pediatric Epilepsy Research Consortium (PERC) along with other worthwhile individual efforts (such as the CNS Philip R. Dodge Young Investigator Award).

QUESTION | ***Remind us of the role that PERF played in helping the Child Neurology Society meet its goal with respect to the Young Investigator Award.***

PERF played a substantial role in funding the endowment that supports the Philip R. Dodge Young Investigator Award (PRDYIA). We feel that this award is directly in line with our mission to develop young investigators

in child neurology. We did this initially by providing the CNS with a $50,000 donation. We subsequently offered three challenge grants totalling $253,000 to encourage the membership to join us and others in making the full funding of this endowment (at $1,000,000) a reality.

Editor's Note: *Photos on pp 6-7 show Dr. Elterman at the 2014 CNS Annual Meeting, with Dr. Darryl De Vivo, Chairman of the Philip R. Dodge Young Investigator Award Endowment Fundraising Committee, and signing the check with fundraising committee members looking on that enabled the CNS to achieve the historic $1,000,000 goal.*

QUESTION | ***Tell us about the endowed chair that PERF funded.***

In 2016 we completed a $1,500,000 commitment to the University of Utah for the "Presidential Endowed Chair in Child Neurology given in memory of Patrick Bray, MD." We also take pride in our endowment of $1,500,000 to the University of Miami Miller School of Medicine to support two full medical school student scholarships; this endowment was also competed in 2016.

QUESTION | ***How are funding decisions made at PERF?***

PERF has an outstanding board of directors consisting of eight child neurologists and three individuals that have experience in finance, not-for-profit foundations, healthcare and information technology. Grant applications and other potential projects are reviewed by the board on a regular basis. Occasionally, grant applications are sent out for independent review if we feel additional expertise is needed in a given area.

QUESTION | ***Since its inception, how many projects has PERF funded, and how much has it expended on t hese projects?***

Since 2010, PERF has donated in excess of $8,500,000. This money has provided financial support for 17 research

grants and 12 meritorious individual projects such as the PRDYIA.

QUESTION | ***If a person is interested in applying for a PERF grant, how does he or she go about it?***

The PERF website (pediatricepilepsyresearch foundation.org) provides guidelines for grant inquiries. We offer two grant categories, the PERF Career Development Grant and the PERF Grant for Infrastructure/Registry (I/R) Research. The Career Development (young investigator) grant award is now being funded by PERF through the Child Neurology Foundation by funding the PERF Scientific Research Grant and the Shields Research Grant. The competitive I/R grant is directed at developing new infrastructure, registries and networks in child neurology. For the competitive I/R grant, letters of intent are due by December 1 each year.

QUESTION | ***What do you envision as the future of PERF?***

That's a good question! Our original intention was that PERF would come to an end with the cessation of its current revenue source. That may no longer be what happens. For now, I would simply say "time will tell."

Winner of 2016 PERF Clinical/Translational Research Grant Announced

The Pediatric Epilepsy Research Foundation is proud to announce the 2016 winner of the "PERF Grant for Infrastructure/Registry Research". The investigator is Dr. Zachary Grinspan of Weill Medical College of Cornell University, in New York. A $200,000 two-year grant was awarded for his winning project, "Comparative Effectiveness Research for Infantile Spasms".

Have a project proposal you think might qualify for the 2015 award? This competitive grant is directed at developing new infrastructure (registries and networks in child neurology) and is offered yearly by PERF. **Letters of intent for 2017 are due December 1st.**

For more information, click: www.pediatricepilepsyresearchfoundation.org.

Dr. Louis Manganas, PhD

An MRS Peak to Pique Your Interest

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

After a child has an unprovoked seizure, the burning question in everyone's mind is: *Does this mean this child is going to have more seizures?* Unfortunately, there is currently no reliable way to answer this question. Dr. Louis Manganas, an Assistant Professor of Pediatric Neurology at Stony Brook University, aims to improve this situation by identifying a biomarker of epileptogenesis.

In many and perhaps all cases, epileptic seizures are caused by the presence of aberrant re-entrant circuits in neural networks. The fact has been known for several decades that epileptic seizures lead to accelerated proliferation of neural progenitor cells (NPCs), which are the mitotically active neuroblasts that give rise to new neurons. Following a single seizure, the newly generated cells may integrate into existing neural circuits, disrupt them, and induce subsequent seizures. This may represent one of the mechanisms underlying epileptogenesis.

Thus, the accelerated NPC proliferation following an unprovoked seizure may have the harmful effect of inducing subsequent epilepsy. It follows that the presence and concentration of NPCs following an unprovoked seizure could serve as a biomarker of epileptogenesis. But, how to detect the NPCs?

Nine years ago, while he was a postdoctoral fellow at Cold Spring Harbor Laboratories, Dr. Manganas and his co-workers discovered that NPCs can be detected by magnetic resonance spectroscopy (MRS). Probably because of their uniquely high concentration of saturated fatty acids and monounsaturated fatty acids, NPCs can be detected as a 1.28 ppm peak on MRS. The identity and origin of this peak are unknown. However, the amplitude of this peak is proportional to the concentration of NPCs. He published his findings in the journal *Science*.

Dr. Manganas has hypothesized that the aberrant proliferation of NPCs following a single seizure may act as a nidus for epileptogenesis and that the amplitude of this peak on MRS may correlate with the risk of subsequent epilepsy. Following his discovery of the MRS peak associated with NPCs, Dr. Manganas has completed a residency in child neurology and a fellowship in epilepsy. Now, nine years later, Dr. Manganas is conducting the study that tests his hypothesis. As the 2016 recipient of the Pediatric Epilepsy Research Foundation (PERF) grant, Dr. Manganas is examining whether the NPC peak is greater in patients who have had a single seizure than in controls and whether the amplitude of the NPC peak following a single seizure correlates with the risk of developing subsequent epilepsy.

"I am grateful to PERF for providing these funds. The PERF grant is currently my sole source of funding for this research, which I have been planning since 2007."

Editor's Note: *This line of research, funded by PERF, is an excellent example of the type of high-risk, high-yield research that private foundations can underwrite and that have the potential to revolutionize a medical field. If Dr. Manganas's hypothesis is correct, that the increased proliferation of neural progenitor cells following a single seizure plays a role in epileptogenesis and that increased presence of NPCs can be detected by MRS, then the ground work is laid for new and better methods of epilepsy prognosis, treatment and possible prevention.*

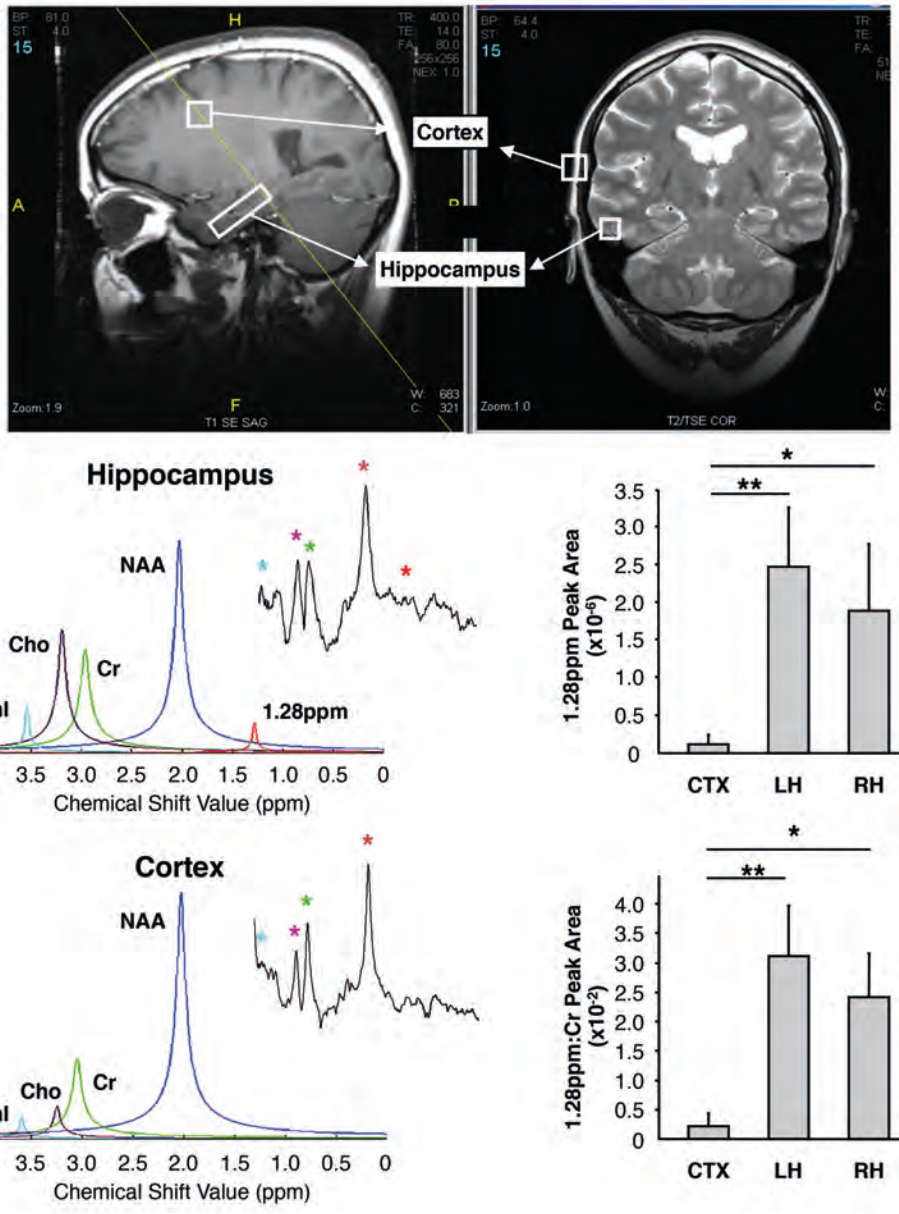
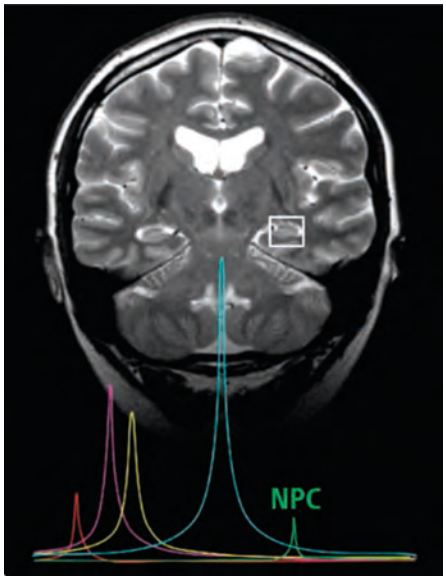


Figure Legend:
Voxels are placed along the hippocampus and in the cortex. In the hippocampus, the 1.28-ppm biomarker (red) is evident when SVD-based signal processing is performed but not when Fourier transform is done. In the cortex, the 1.28-ppm biomarker is not detected by either data analysis. Colored asterisks and colored peaks correlate. Bar graphs show absolute (top) and relative (bottom) quantification of the 1.28-ppm biomarker (CTX, cortex; LH, left hippocampus; RH, right hippocampus; n=5 people).



CONNECTING WITH COLLEAGUES
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YANO, Sho
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For adjunctive treatment of partial-onset seizures with or without secondarily generalized seizures and primary generalized tonic-clonic seizures in patients with epilepsy 12 years of age and older

Change the Course of Epilepsy Treatment for Your Patients

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BOOTH 111

Vancouver Convention Centre, Vancouver, BC

October 26-29, 2016

Please see Important Safety Information, including **Boxed WARNING**, and Brief Summary of full US Prescribing Information on following pages.

This material is intended for healthcare professionals from the United States. The material is based on the US Prescribing Information and may not be consistent with the Prescribing Information in other countries.

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ORAL SUSPENSION 0.5 mg/mL
III

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INDICATION

FYCOMPA® (perampanel) is indicated as adjunctive therapy for the treatment of partial-onset seizures with or without secondarily generalized seizures and primary generalized tonic-clonic seizures in patients with epilepsy 12 years of age and older.

IMPORTANT SAFETY INFORMATION

WARNING: SERIOUS PSYCHIATRIC AND BEHAVIORAL REACTIONS

- **Serious or life-threatening psychiatric and behavioral adverse reactions including aggression, hostility, irritability, anger, and homicidal ideation and threats have been reported in patients taking FYCOMPA**
- **These reactions occurred in patients with and without prior psychiatric history, prior aggressive behavior, or concomitant use of medications associated with hostility and aggression**
- **Advise patients and caregivers to contact a healthcare provider immediately if any of these reactions or changes in mood, behavior, or personality that are not typical for the patient are observed while taking FYCOMPA or after discontinuing FYCOMPA**
- **Closely monitor patients particularly during the titration period and at higher doses**
- **FYCOMPA should be reduced if these symptoms occur and should be discontinued immediately if symptoms are severe or are worsening**

SERIOUS PSYCHIATRIC AND BEHAVIORAL REACTIONS In the partial-onset seizures clinical trials, hostility- and aggression-related adverse reactions occurred in 12% and 20% of patients randomized to receive FYCOMPA at doses of 8 mg and 12 mg per day, respectively, compared to 6% of patients in the placebo group. These effects were dose-related and generally appeared within the first 6 weeks of treatment, although new events continued to be observed through more than 37 weeks. These effects in FYCOMPA-treated patients led to dose reduction, interruption, and discontinuation more frequently than placebo-treated patients. The combination of alcohol and FYCOMPA significantly worsened mood and increased anger. Homicidal ideation and/or threat have also been reported postmarketing in patients treated with FYCOMPA. Patients taking FYCOMPA should avoid the use of alcohol. Patients, their caregivers, and families should be informed that FYCOMPA may increase the risk of psychiatric events. Patients should be monitored during treatment and for at least one month after the last dose of FYCOMPA, and especially when taking higher doses and during the initial few weeks of drug therapy (titration period) or at other times of dose increases. Similar serious psychiatric and behavioral events were observed in the primary generalized tonic-clonic (PGTC) seizure clinical trial.

SUICIDAL BEHAVIOR AND IDEATION Antiepileptic drugs (AEDs), including FYCOMPA, increase the risk of suicidal thoughts or behavior in patients. Anyone considering prescribing FYCOMPA or any other AED must balance the risk of suicidal thoughts or behavior with the risk of untreated illness. Epilepsy and many other illnesses for which AEDs are prescribed are themselves associated with morbidity and mortality and an increased risk of suicidal thoughts and behavior. Patients, their caregivers, and families should be informed of the risk and advised to monitor and immediately report the emergence or worsening of depression, suicidal thoughts or behavior, thoughts about self-harm and/or any unusual changes in mood or behavior. Should suicidal thoughts and behavior emerge during treatment, consider whether the emergence of these symptoms in any given patient may be related to the illness being treated.

You are encouraged to report side effects of prescription drugs to the FDA. Visit **www.fda.gov/medwatch** or call **1-800-FDA-1088**.

DIZZINESS AND GAIT DISTURBANCE FYCOMPA caused dose-related increases in events related to dizziness and disturbance in gait or coordination. Dizziness and vertigo were reported in 35% and 47% of patients in the partial-onset seizure trials randomized to receive FYCOMPA at doses of 8 mg and 12 mg per day, respectively, compared to 10% of placebo-treated patients. Gait disturbance related events were reported in 12% and 16% of patients in the partial-onset seizure clinical trials randomized to receive FYCOMPA at doses of 8 mg and 12 mg per day, respectively, compared to 2% of placebo-treated patients. These adverse reactions occurred mostly during the titration phase. These adverse reactions were also observed in the PGTC seizure clinical trial.

SOMNOLENCE AND FATIGUE FYCOMPA caused dose-dependent increases in somnolence and fatigue-related events. Somnolence was reported in 16% and 18% of patients in the partial-onset seizure trials randomized to receive FYCOMPA at doses of 8 mg and 12 mg per day, respectively, compared to 7% of placebo patients. Fatigue-related events were reported in 12% and 15% of patients in the partial-onset seizure trials randomized to receive FYCOMPA at doses of 8 mg and 12 mg per day, respectively, compared to 5% of placebo patients. These adverse reactions occurred mostly during the titration phase. These adverse reactions were also observed in the PGTC seizure clinical trial. Patients should be advised against engaging in hazardous activities requiring mental alertness, such as operating motor vehicles or dangerous machinery, until the effect of FYCOMPA is known.

FALLS Falls were reported in 5% and 10% of patients in the partial-onset seizure clinical trials randomized to receive FYCOMPA at doses of 8 mg and 12 mg per day, respectively, compared to 3% of placebo-treated patients.

WITHDRAWAL OF AEDs A gradual withdrawal is generally recommended with AEDs to minimize the potential of increased seizure frequency, but if withdrawal is a response to adverse events, prompt withdrawal can be considered.

MOST COMMON ADVERSE REACTIONS The most common adverse reactions in patients receiving FYCOMPA (≥5% and ≥1% higher than placebo) include dizziness, somnolence, fatigue, irritability, falls, nausea, weight gain, vertigo, ataxia, headache, vomiting, contusion, abdominal pain, and anxiety.

DRUG INTERACTIONS FYCOMPA may decrease the efficacy of contraceptives containing levonorgestrel. Plasma levels of FYCOMPA were decreased when administered with carbamazepine, phenytoin, or oxcarbazepine. Concomitant use of FYCOMPA with other strong CYP3A inducers (e.g., rifampin, St. John's wort) should be avoided. Multiple dosing of FYCOMPA 12 mg per day enhanced the effects of alcohol on vigilance and alertness, and increased levels of anger, confusion, and depression. These effects may also be seen when FYCOMPA is used in combination with other CNS depressants.

PREGNANCY AND LACTATION Physicians are advised to recommend that pregnant patients taking FYCOMPA enroll in the North American Antiepileptic Drug (NAAED) Pregnancy Registry. Caution should be exercised when FYCOMPA is administered to pregnant or nursing women as there are no adequate data on the developmental risk associated with use in pregnant women, and no data on the presence of perampanel in human milk, the effects on the breastfed child, or the effects of the drug on milk production.

HEPATIC AND RENAL IMPAIRMENT Use in patients with severe hepatic or severe renal impairment is not recommended. Dosage adjustments are recommended in patients with mild or moderate hepatic impairment. Use with caution in patients with moderate renal impairment.

DRUG ABUSE AND DEPENDENCE FYCOMPA is a Schedule III controlled substance and has the potential to be abused and lead to drug dependence.

Fycompa™ (perampanel) TABLETS 2 • 4 • 6 • 8 • 10 • 12 mg ORAL SUSPENSION 0.5 mg/mL CIII

Fycompa™

(perampanel) TABLETS 2 • 4 • 6 • 8 • 10 • 12 mg ORAL SUSPENSION 0.5 mg/mL CIII

FYCOMPA® (perampanel) tablets, for oral use, CIII
FYCOMPA® (perampanel) Oral Suspension, CIII
Initial U.S. Approval: 2012

Brief Summary of Full Prescribing Information dated April 2016

WARNING: SERIOUS PSYCHIATRIC AND BEHAVIORAL REACTIONS

- **Serious or life-threatening psychiatric and behavioral adverse reactions including aggression, hostility, irritability, anger, and homicidal ideation and threats have been reported in patients taking FYCOMPA (5.1).**
- **These reactions occurred in patients with and without prior psychiatric history, prior aggressive behavior, or concomitant use of medications associated with hostility and aggression (5.1).**
- **Advise patients and caregivers to contact a healthcare provider immediately if any of these reactions or changes in mood, behavior, or personality that are not typical for the patient are observed while taking FYCOMPA or after discontinuing FYCOMPA (5.1).**
- **Closely monitor patients particularly during the titration period and at higher doses (5.1).**
- **FYCOMPA should be reduced if these symptoms occur and should be discontinued immediately if symptoms are severe or are worsening (5.1).**

WARNINGS AND PRECAUTIONS

Serious Psychiatric and Behavioral Reactions In the controlled partial-onset seizure clinical trials, hostility- and aggression-related adverse reactions occurred in 12% and 20% of patients randomized to receive FYCOMPA at doses of 8 mg and 12 mg per day, respectively, compared to 6% of patients in the placebo group. These effects were dose-related and generally appeared within the first 6 weeks of treatment, although new events continued to be observed through more than 37 weeks. FYCOMPA-treated patients experienced more hostility- and aggression-related adverse reactions that were serious, severe, and led to dose reduction, interruption, and discontinuation more frequently than placebo-treated patients. In general, in placebo-controlled partial-onset seizure clinical trials, neuropsychiatric events were reported more frequently in patients being treated with FYCOMPA than in patients taking placebo. These events included irritability, aggression, anger, and anxiety, which occurred in 2% or greater of FYCOMPA-treated patients and twice as frequently as in placebo-treated patients. Other symptoms that occurred with FYCOMPA and were more common than with placebo included belligerence, affect lability, agitation, and physical assault. Some of these events were reported as serious and life-threatening. Homicidal ideation and/or threat were exhibited in 0.1% of 4,368 FYCOMPA-treated patients in controlled and open label trials, including non-epilepsy trials. Homicidal ideation and/or threat have also been reported postmarketing in patients treated with FYCOMPA. In the partial-onset seizure clinical trials, these events occurred in patients with and without prior psychiatric history, prior aggressive behavior, or concomitant use of medications associated with hostility and aggression. Some patients experienced worsening of their pre-existing psychiatric conditions. Patients with active psychotic disorders and unstable recurrent affective disorders were excluded from the clinical trials. The combination of alcohol and FYCOMPA significantly worsened mood and increased anger. Patients taking FYCOMPA should avoid the use of alcohol [*see Drug Interactions (7.3)*]. Similar serious psychiatric and behavioral events were observed in the primary generalized tonic-clonic seizure clinical trial. In healthy volunteers taking FYCOMPA, observed psychiatric events included paranoia, euphoric mood, agitation, anger, mental status changes, and disorientation/confusional state. In the non-epilepsy trials, psychiatric events that occurred in perampanel-treated patients more often than placebo-treated patients included disorientation, delusion, and paranoia. In the postmarketing setting, there have been reports of psychosis in patients treated with FYCOMPA. Patients, their caregivers, and families should be informed that FYCOMPA may increase the risk of psychiatric events. Patients should be monitored during treatment and for at least 1 month after the last dose of FYCOMPA, and especially when taking higher doses and during the initial few weeks of drug therapy (titration period) or at other times of dose increases. Dose of FYCOMPA should be reduced if these symptoms occur. Permanently discontinue FYCOMPA for persistent severe or worsening psychiatric symptoms or behaviors and refer for psychiatric evaluation. **Suicidal Behavior and Ideation** Antiepileptic drugs (AEDs), including FYCOMPA, increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication. Patients treated with any AED for any indication should be monitored for the emergence or worsening of depression, suicidal thoughts or behavior, and/or any unusual changes in mood or behavior. Pooled analyses of 199 placebo-controlled clinical trials (mono- and adjunctive therapy) of 11 different AEDs showed that patients randomized to one of the AEDs had approximately twice the risk (adjusted Relative Risk 1.8, 95% CI: 1.2, 2.7) of suicidal thinking or behavior compared to patients randomized to placebo. In these trials, which had a median treatment duration of 12 weeks, the estimated incidence of suicidal behavior or ideation among 27,863 AED-treated patients was 0.43%, compared to 0.24% among 16,029 placebo-treated patients, representing an increase of approximately one case of suicidal thinking or behavior for every 530 patients treated. There were four suicides in drug-treated patients in the trials and none in placebo-treated patients, but the number is too small to allow any conclusion about drug effect on suicide. The increased risk of suicidal thoughts or behavior with AEDs was observed as early as 1 week after starting drug treatment with AEDs and persisted for the duration of treatment assessed. Because most trials included in the analysis did not extend beyond 24 weeks, the risk of suicidal thoughts or behavior beyond 24 weeks could not be assessed. The risk of suicidal thoughts or behavior was generally consistent among drugs in the data analyzed. The finding of increased risk with AEDs of varying mechanisms of action and across a range of indications suggests that the risk applies to all AEDs used for any indication. The risk did not vary substantially by age (5-100 years) in the clinical trials analyzed. Table 1 shows absolute and relative risk by indication for all evaluated AEDs.

Table 1. Risk by indication for antiepileptic drugs in the pooled analysis

Indication	Placebo Patients with Events per 1000 Patients	Drug Patients with Events per 1000 patients	Relative Risk: Incidence of Events in drug Patients/ Incidence in Placebo Patients	Risk Difference: Additional Drug Patients with Events per 1000 Patients
Epilepsy	1.0	3.4	3.5	2.4
Psychiatric	5.7	8.5	1.5	2.9
Other	1.0	1.8	1.9	0.9
Total	2.4	4.3	1.8	1.9

The relative risk for suicidal thoughts or behavior was higher in clinical trials for epilepsy than in clinical trials for psychiatric or other conditions, but the absolute risk differences were similar for the epilepsy and psychiatric indications. Anyone considering prescribing FYCOMPA or any other AED must balance the risk of suicidal thoughts or behavior with the risk of untreated illness. Epilepsy and many other illnesses for which AEDs are prescribed are themselves associated with morbidity and mortality and an increased risk of suicidal thoughts and behavior. Should suicidal thoughts and behavior emerge during treatment, the prescriber needs to consider whether the emergence of these symptoms in any given patient may be related to the illness being treated. Patients, their caregivers, and families should be informed that AEDs increase the risk of suicidal thoughts and behavior and should be advised of the need to be alert for the emergence or worsening of the signs and symptoms of depression, any unusual changes in mood or behavior, or the emergence of suicidal thoughts, behavior, or thoughts about self-harm. Behaviors of concern should be reported immediately to healthcare providers. **Neurologic Effects** Dizziness and Gait Disturbance FYCOMPA caused dose-related increases in events related to dizziness and disturbance in gait or coordination [*see Adverse Reactions (6.1)]*. In the controlled partial-onset seizure clinical trials, dizziness and vertigo were reported in 35% and 47% of patients randomized to receive FYCOMPA at doses of 8 mg and 12 mg per day, respectively, compared to 10% of placebo-treated patients. The gait disturbance related events (including ataxia, gait disturbance, balance disorder, and abnormal coordination) were reported in 12% and 16% of patients randomized to receive FYCOMPA at doses of 8 mg and 12 mg per day, respectively, compared to 2% of placebo-treated patients. Elderly patients had an increased risk of these adverse reactions compared to younger adults and pediatric patients. These adverse reactions occurred mostly during the titration phase and led to discontinuation in 3% of FYCOMPA-treated patients compared to 1% of placebo-treated patients. These adverse reactions were also observed in the primary generalized tonic-clonic seizure clinical trial. Somnolence and Fatigue FYCOMPA caused dose-dependent increases in somnolence and fatigue-related events (including fatigue, asthenia, and lethargy). In the controlled partial-onset seizure clinical trials, 16% and 18% of patients randomized to receive FYCOMPA at doses of 8 mg and 12 mg per day, respectively, reported somnolence compared to 7% of placebo patients. In the controlled partial-onset seizure clinical trials, 12% and 15% of patients randomized to receive FYCOMPA at doses of 8 mg and 12 mg per day, respectively, reported fatigue-related events compared to 5% of placebo patients. Somnolence or fatigue-related events led to discontinuation in 2% of FYCOMPA-treated patients and 0.5% of placebo-treated patients. Elderly patients had an increased risk of these adverse reactions compared to younger adults and pediatric patients. In the controlled partial-onset seizure clinical trials, these adverse reactions occurred mostly during the titration phase. These adverse reactions were also observed in the primary generalized tonic-clonic seizure clinical trial. Risk Amelioration Prescribers should advise patients against engaging in hazardous activities requiring mental alertness, such as operating motor vehicles or dangerous machinery, until the effect of FYCOMPA is known. **Falls** An increased risk of falls, in some cases leading to serious injuries including head injuries and bone fracture, occurred in patients being treated with FYCOMPA (with and without concurrent seizures). In the controlled partial-onset seizure clinical trials, falls were reported in 5% and 10% of patients randomized to receive FYCOMPA at doses of 8 mg and 12 mg per day, respectively, compared to 3% of placebo-treated patients. Falls were reported as serious and led to discontinuation more frequently in FYCOMPA-treated patients than placebo-treated patients. Elderly patients had an increased risk of falls compared to younger adults and pediatric patients. **Withdrawal of Antiepileptic Drugs** There is the potential of increased seizure frequency in patients with seizure disorders when antiepileptic drugs are withdrawn abruptly. FYCOMPA has a half-life of approximately 105 hours so that even after abrupt cessation, blood levels fall gradually. In epilepsy clinical trials FYCOMPA was withdrawn without down-titration. Although a small number of patients exhibited seizures following discontinuation, the data were not sufficient to allow any recommendations regarding appropriate withdrawal regimens. A gradual withdrawal is generally recommended with antiepileptic drugs, but if withdrawal is a response to adverse events, prompt withdrawal can be considered.

ADVERSE REACTIONS

Clinical Trials Experience Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice. Partial-Onset Seizures A total of 1,038 patients receiving FYCOMPA (2, 4, 8, or 12 mg once daily) constituted the safety population in the pooled analysis of the placebo-controlled trials (Studies 1, 2, and 3) in patients with partial-onset seizures. Approximately 51% of patients were female, and the mean age was 35 years. *Adverse Reactions Leading to Discontinuation* In controlled clinical trials (Studies 1, 2, and 3), the rate of discontinuation as a result of an adverse reaction was 3%, 8%, and 19% in patients randomized to receive FYCOMPA at the recommended doses of 4 mg, 8 mg, and 12 mg per day, respectively, and 5% in patients randomized to receive placebo *[see Clinical Studies (14)]*. The adverse reactions most commonly leading to discontinuation (≥1% in the 8 mg or 12 mg FYCOMPA group and greater than placebo) were dizziness, somnolence, vertigo, aggression, anger, ataxia, blurred vision, irritability, and dysarthria [*see Warnings and Precautions (5.1, 5.3)*]. *Most Common Adverse Reactions* Table 2 gives the incidence in the controlled clinical trials (Studies 1, 2, and 3) of the adverse reactions that occurred in ≥2% of patients with partial-onset seizures in the FYCOMPA 12 mg dose group and more frequent than placebo (in order of decreasing frequency for the 12 mg dose group). The most common dose-related adverse reactions in patients receiving FYCOMPA at doses of 8 mg or 12 mg (≥4% and occurring at least 1% higher than the placebo group) included dizziness (36%), somnolence (16%), fatigue (10%), irritability (9%), falls (7%), nausea (7%), ataxia (5%), balance disorder (4%), gait disturbance (4%), vertigo (4%), and weight gain (4%). For almost every adverse reaction, rates were higher on 12 mg and more often led to dose reduction or discontinuation.

Table 2. Adverse Reactions in Pooled Placebo-Controlled Trials in Patients with Partial-Onset Seizures (Studies 1, 2, and 3) (Reactions ≥ 2% of Patients in Highest FYCOMPA Dose (12 mg) Group and More Frequent than Placebo)

	Placebo n=442 %	FYCOMPA 4 mg n=172 %	FYCOMPA 8 mg n=431 %	FYCOMPA 12 mg n=255 %
Dizziness	9	16	32	43
Somnolence	7	9	16	18
Headache	11	11	11	13
Irritability	3	4	7	12
Fatigue	5	8	8	12
Falls	3	2	5	10
Ataxia	0	1	3	8
Nausea	5	3	6	8
Vertigo	1	4	3	5
Back pain	2	2	2	5
Dysarthria	0	1	3	4
Anxiety	1	2	3	4
Blurred vision	1	1	3	4
Gait disturbance	1	1	4	4
Weight gain	1	4	4	4
Cough	3	1	1	4
Upper respiratory tract infection	3	3	3	4
Vomiting	3	2	3	4
Hypersomnia	0	1	2	3
Anger	<1	0	1	3
Aggression	1	1	2	3
Balance disorder	1	0	5	3
Diplopia	1	1	1	3
Head injury	1	1	1	3
Hypoaesthesia	1	0	0	3
Pain in extremity	1	0	2	3
Constipation	2	2	2	3
Myalgia	2	1	1	3
Coordination abnormal	0	1	<1	2

Table 2. Adverse Reactions in Pooled Placebo-Controlled Trials in Patients with Partial-Onset Seizures (Studies 1, 2, and 3) (Reactions ≥ 2% of Patients in Highest FYCOMPA Dose (12 mg) Group and More Frequent than Placebo) (cont.)

Euphoric mood	0	0	<1	2
Confusional state	<1	1	1	2
Hyponatremia	<1	0	0	2
Limb injury	<1	1	1	2
Mood altered	<1	1	<1	2
Arthralgia	1	0	3	2
Asthenia	1	1	2	2
Contusion	1	0	2	2
Memory impairment	1	0	1	2
Musculoskeletal pain	1	1	1	2
Oropharyngeal pain	1	2	2	2
Paraesthesia	1	0	1	2
Peripheral edema	1	1	1	2
Skin laceration	1	0	2	2

Primary Generalized Tonic-Clonic Seizures A total of 81 patients receiving FYCOMPA 8 mg once daily constituted the safety population in the placebo-controlled trial in patients with primary generalized tonic-clonic seizures (Study 4). Approximately 57% of patients were female, and the mean age was 27 years. In the controlled primary generalized tonic-clonic seizure clinical trial (Study 4), the adverse reaction profile was similar to that noted for the controlled partial-onset seizure clinical trials (Studies 1, 2, and 3). Table 3 gives the incidence of adverse reactions in patients receiving FYCOMPA 8 mg (≥4% and higher than in the placebo group) in Study 4. The most common adverse reactions in patients receiving FYCOMPA (≥10% and greater than placebo) were dizziness (32%), fatigue (15%), headache (12%), somnolence (11%), and irritability (11%). The adverse reactions most commonly leading to discontinuation in patients receiving FYCOMPA 8 mg (≥2% and greater than placebo) were vomiting (2%) and dizziness (2%).

Table 3. Adverse Reactions in a Placebo-Controlled Trial in Patients with Primary Generalized Tonic-Clonic Seizures (Study 4) (Reactions ≥ 4% of Patients in FYCOMPA Group and More Frequent than Placebo)

	Placebo n=82 %	FYCOMPA 8 mg n=81 %
Dizziness	6	32
Fatigue	6	15
Headache	10	12
Somnolence	4	11
Irritability	2	11
Vertigo	2	9
Vomiting	2	9
Weight gain	4	7
Contusion	4	6
Nausea	5	6
Abdominal pain	1	5
Anxiety	4	5
Urinary tract infection	1	4
Ligament sprain	0	4
Balance disorder	1	4
Rash	1	4

Weight Gain Weight gain has occurred with FYCOMPA. In controlled partial-onset seizure clinical trials, FYCOMPA-treated adults gained an average of 1.1 kg (2.5 lbs) compared to an average of 0.3 kg (0.7 lbs) in placebo-treated adults with a median exposure of 19 weeks. The percentages of adults who gained at least 7% and 15% of their baseline body weight in FYCOMPA-treated patients were 9.1% and 0.9%, respectively, as compared to 4.5% and 0.2% of placebo-treated patients, respectively. Clinical monitoring of weight is recommended. Similar increases in weight were also observed in adult and pediatric patients treated with FYCOMPA in the primary generalized tonic-clonic seizure clinical trial. Elevated triglycerides Increases in triglycerides have occurred with FYCOMPA use. Comparison of Sex and Race No significant sex differences were noted in the incidence of adverse reactions. Although there were few non-Caucasian patients, no differences in the incidence of adverse reactions compared to Caucasian patients were observed. **Postmarketing Experience** The following adverse reactions have been identified during post approval use of FYCOMPA. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.
Dermatologic: Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS).
Psychiatric: acute psychosis, hallucinations, delusions, paranoia, delirium, confusional state, disorientation, memory impairment.

DRUG INTERACTIONS

Contraceptives With concomitant use, FYCOMPA at a dose of 12 mg per day reduced levonorgestrel exposure by approximately 40% [*see Clinical Pharmacology (12.3)*]. Use of FYCOMPA with oral or implant contraceptives containing levonorgestrel may render them less effective. Additional non-hormonal forms of contraception are recommended. **Cytochrome P450 Inducers** The concomitant use of known cytochrome P450 (CYP) enzyme inducers including carbamazepine, phenytoin, or oxcarbazepine with FYCOMPA decreased the plasma levels of perampanel by approximately 50-67% [*see Clinical Pharmacology (12.3)*]. The starting doses for FYCOMPA should be increased in the presence of enzyme-inducing AEDs [*see Dosage and Administration (2.3)*]. When these enzyme-inducing AEDs are introduced or withdrawn from a patient's treatment regimen, the patient should be closely monitored for clinical response and tolerability. Dose adjustment of FYCOMPA may be necessary [*see Dosage and Administration (2.3)*]. Concomitant use of FYCOMPA with other strong CYP3A inducers (e.g., rifampin, St. John's wort) is not recommended. **Alcohol and Other CNS Depressants** The concomitant use of FYCOMPA and CNS depressants including alcohol may increase CNS depression. A pharmacodynamic interaction study in healthy subjects found that the effects of FYCOMPA on complex tasks such as driving ability were additive or supra-additive to the impairment effects of alcohol *[see Clinical Pharmacology (12.3)]*. Multiple dosing of FYCOMPA 12 mg per day also enhanced the effects of alcohol to interfere with vigilance and alertness, and increased levels of anger, confusion, and depression. These effects may also be seen when FYCOMPA is used in combination with other CNS depressants. Care should be taken when administering FYCOMPA with these agents. Patients should limit activity until they have experience with concomitant use of CNS depressants (e.g., benzodiazepines, narcotics, barbiturates, sedating antihistamines). Advise patients not to drive or operate machinery until they have gained sufficient experience on FYCOMPA to gauge whether it adversely affects these activities.

USE IN SPECIFIC POPULATIONS

Pregnancy To provide information regarding the effects of *in utero* exposure to FYCOMPA, physicians are advised to recommend that pregnant patients taking FYCOMPA enroll in the North American Antiepileptic Drug (NAAED) Pregnancy Registry. This can be done by calling the toll free number 1-888-233-2334, and must be done by patients themselves. Information on the registry can also be found at the website: http://www.aedpregnancyregistry.org. There are no adequate and well-controlled studies in pregnant women. In animal reproduction studies, perampanel induced developmental toxicity in pregnant rat and rabbit at clinically relevant doses. Oral administration of perampanel (1, 3, or 10 mg/kg/day) to pregnant rats throughout organogenesis resulted in an increase in visceral abnormalities (diverticulum of the intestine) at all doses tested. In a dose-ranging study at higher oral doses (10, 30, or 60 mg/kg/day), embryo lethality and reduced fetal body weight were observed at the mid and high doses tested. The lowest dose tested (1 mg/kg/day) is similar to a human dose of 8 mg per day based on body surface area (mg/m^2). Upon oral administration of perampanel (1, 3, or 10 mg/kg per day) to pregnant rabbits throughout organogenesis, embryo lethality was observed at the mid and high doses tested; the no-effect dose for embryo-fetal developmental toxicity in rabbit (1 mg/kg/day) is approximately 2 times a human dose of 8 mg per day based on body surface area (mg/m^2). Oral administration of perampanel (1, 3, or 10 mg/kg per day) to rats throughout gestation and lactation resulted in fetal and pup deaths at the mid and high doses and delayed sexual maturation in males and females at the highest dose tested. No effects were observed on measures of neurobehavioral or reproductive function in the offspring. The no-effect dose for pre- and postnatal developmental toxicity in rat (1 mg/kg/day) is similar to a human dose of 8 mg per day based on body surface area (mg/m^2). **Lactation** There are no data on the presence of perampanel in human milk, the effects of perampanel on the breastfed child, or the effects of the drug on milk production. Perampanel and/or its metabolites are excreted in rat milk, and are detected at concentrations higher than that in maternal plasma. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for FYCOMPA and any potential adverse effects on the breastfed child from FYCOMPA or from the underlying maternal condition. **Females and Males of Reproductive Potential** Use of FYCOMPA with oral or implant contraceptives containing levonorgestrel may render them less effective. Additional non-hormonal forms of contraception are recommended. *[see Clinical Pharmacology (12.3)]*. **Pediatric Use** The safety and efficacy of FYCOMPA for the adjunctive therapy of partial-onset seizures in pediatric patients 12 years of age and older was established by three randomized double-blind, placebo-controlled, multicenter studies, which included 72 pediatric patients between 12 and 16 years of age exposed to FYCOMPA. The safety and efficacy of FYCOMPA for the adjunctive therapy of primary generalized tonic-clonic seizures in pediatric patients 12 years of age and older was established in a single randomized double-blind, placebo-controlled, multicenter trial (n=164), which included 11 pediatric patients 12 to 16 years of age exposed to FYCOMPA; an additional 6 patients were treated with FYCOMPA in the open label extension of the study. The safety and effectiveness of FYCOMPA in pediatric patients less than 12 years of age have not been established *[see Clinical Pharmacology (12.3), Clinical Studies (14.1)]*. Juvenile Animal Data Oral administration of perampanel (1, 3, 3/10/30 mg/kg/day; high dose increased on postnatal days [PND] 28 and 56) to young rats for 12 weeks starting on PND 7 resulted in reduced body weight, reduced growth, neurobehavioral impairment (water maze performance and auditory startle habituation) at the mid and high doses, and delayed sexual maturation at the high doses. CNS signs (reduced activity, incoordination, excessive grooming/scratching), pup death, decreased hindlimb splay, and decreased hindlimb grip strength were observed at all doses. Effects on pup body weight, pup growth, hindlimb splay, impairment in the water maze performance, and auditory startle persisted after dosing was stopped. A no-effect dose for postnatal developmental toxicity was not identified in this study. Oral administration of perampanel (1, 5, 5/10 mg/kg/day; high dose increased on PND 56) to juvenile dogs for 33 weeks, starting on PND 42, resulted in CNS signs (incoordination, excessive grooming/licking/scratching, spatial disorientation, and/or ataxic gait) at all doses tested. **Geriatric Use** Clinical studies of FYCOMPA did not include sufficient numbers of patients aged 65 and over to determine the safety and efficacy of FYCOMPA in the elderly population. Because of increased likelihood for adverse reactions in the elderly, dosing titration should proceed slowly in patients aged 65 years and older *[see Dosage and Administration (2.5)]*. **Hepatic Impairment** Use of FYCOMPA in patients with severe hepatic impairment is not recommended, and dosage adjustments are recommended in patients with mild or moderate hepatic impairment *[see Dosage and Administration (2.4), Clinical Pharmacology (12.3)]*. **Renal Impairment** Dose adjustment is not required in patients with mild renal impairment. FYCOMPA should be used with caution in patients with moderate renal impairment, and slower titration may be considered. Use in patients with severe renal impairment or patients undergoing hemodialysis is not recommended [*see Dosage and Administration (2.5), Clinical Pharmacology (12.3)*].

DRUG ABUSE AND DEPENDENCE

Controlled Substance FYCOMPA contains perampanel and is listed as a Schedule III controlled substance. **Abuse** Prescription drug abuse is the intentional non-therapeutic use of a drug, even once, for its rewarding psychological or physiological effects. Drug addiction, which develops after repeated drug abuse, is characterized by a strong desire to take a drug despite harmful consequences, difficulty in controlling its use, giving a higher priority to drug use than to obligations, increased tolerance, and sometimes physical withdrawal. Drug abuse and drug addiction are separate and distinct from physical dependence (for example, abuse may not be accompanied by physical dependence) *[see Drug Abuse and Dependence (9.3)]*. Studies of human abuse potential were performed to evaluate the abuse potential of FYCOMPA (8 mg, 24 mg, and 36 mg) as compared to alprazolam C-IV (1.5 mg and 3 mg), and oral ketamine C-III (100 mg) in recreational polydrug users. Supra-therapeutic doses of FYCOMPA 24 and 36 mg produced responses for "Euphoria" that were similar to ketamine 100 mg and alprazolam 3 mg. For "High," FYCOMPA 24 mg and 36 mg produced responses comparable to ketamine 100 mg and significantly higher than both doses of alprazolam on a visual analog scale (VAS). "Drug Liking," "Overall Drug Liking," and "Take Drug Again" for FYCOMPA were each statistically lower than ketamine 100 mg. In addition, for "Bad Drug Effects," FYCOMPA 24 mg and 36 mg produced responses significantly higher than ketamine 100 mg. For "Sedation," FYCOMPA 24 and 36 mg produced responses similar to alprazolam 3 mg and higher than ketamine 100 mg. Additionally, on VAS measures related to dissociative phenomena such as "Floating," "Spaced Out," and "Detached," FYCOMPA at supra-therapeutic doses produced responses similar to ketamine 100 mg and greater than both doses of alprazolam tested. Of note, due to somnolence a number of subjects had missing data around T_{max} of FYCOMPA. The above described data might represent an underestimate of FYCOMPA's effects. The duration of effects of higher doses of FYCOMPA on the majority of measures was much greater than alprazolam 3 mg and ketamine 100 mg. In this study, the incidence of euphoria following FYCOMPA administration 8 mg, 24 mg, and 36 mg was 37%, 46%, 46%, respectively, which was higher than alprazolam 3 mg (13%) but lower than ketamine 100 mg (89%). **Dependence** Physical dependence is characterized by withdrawal symptoms after abrupt discontinuation or a significant dose reduction of a drug. The potential for FYCOMPA to produce withdrawal symptoms has not been adequately evaluated.

OVERDOSAGE

There is limited clinical experience with FYCOMPA overdose. The highest reported overdose (approximately 264 mg) was intentional. This patient experienced serious adverse reactions of altered mental status, agitation, and aggressive behavior and recovered without sequelae. In general, the adverse reactions associated with overdoses were similar to the reactions at therapeutic doses with dizziness reported most frequently. There were no reported sequelae. There is no available specific antidote to the overdose reactions of FYCOMPA. In the event of overdose, standard medical practice for the management of any overdose should be used. An adequate airway, oxygenation, and ventilation should be ensured; monitoring of cardiac rhythm and vital sign measurement is recommended. A certified poison control center should be contacted for updated information on the management of overdose with FYCOMPA. Due to its long half-life, the reactions caused by FYCOMPA could be prolonged.

CONNECTING WITH PARTNERS
Professors of Child Neurology

David K. Urion, MD, FAAN
President, PCN

Dear Colleagues

I look forward to our meeting in Vancouver as I write this, and hope that your new residency years have begun well,

I thought it might be useful, as I come to the end of my term as President, to review what we have accomplished together over the last two years.

From an **educational** perspective, this has been a productive period. The Universal Curriculum is now completed, and through the strong efforts of that group has been turned into both a document that is both useful in and of itself, and also projects onto the Child Neurology and Neurodevelopmental Disabilities Milestones. Thus, we have two inter-related metrics which both allow us to monitor resident progress towards the independent practice of child neurology or NDD, as well as a way that we can assure the public and regulatory agencies that we are indeed faithful guarantors of the trust placed in us to train and form the next generation of specialists across the country.

We have also changed our annual meeting to include Continuing Medical Education for educators, and have focused on those parts of formation we all find challenging – last year, teaching Quality Improvement in a meaningful fashion within a training program, this year, teaching systems-based practice. In concert with the Educational SIG of the CNS, we can look forward to being a meeting where medical educators can find connection, interaction, and new ideas.

From a structural perspective, we have undertaken a review of our finances, led by former and current secretary-treasurers Suresh Kotagal and Steve Leber. They determined that we are essentially a revenue-neutral organization, that is, our dues and other sources of incomes cover the expenses we incur, and the CNS incurs on our behalf through staff and meeting support. We have also identified trends that are concerning, such as a decline in income from dues, suggesting ways we will need to move ahead in the near term.

We have successfully incorporated Program Coordinators as a new class of member in the PCN. While that group is evolving an organizational structure of its own, our collaboration and close coordination are essential to the efficient function of our training programs in an era of increased regulatory oversight and public scrutiny. Our meetings have been enhanced by their participation.

We have also named a task force to review our by-laws and the way they reflect the organization we are becoming. While we have revised portions of the by-laws over the years, the fundamental document dates from the early last quarter of the last century. Time makes ancient good uncouth, and it was felt by the officers that we needed a document that reflected the realities of academic child neurology in the early twenty-first century and poised us for the challenges ahead. The task force will therefore not limit itself to the by-laws alone, but undertake a comprehensive look at our governance and structure, and determine if they are structured to meet the needs of the times. We anticipate that the task force will present its recommendations for consideration over the next six months, and thus be ready for consideration and adoption by the meeting next year.

We have now been through two full years of the new ACGME RRC guidelines for adult training in child neurology, and we have seen child neurology recognized as a core specialty by

the Residency Review Committee of the ACGME. As you recollect, programs were given increased freedom to arrange the adult neurology time spent by their child neurology trainees in a fashion that fit their local needs. Only six months of inpatient adult neurology are now required, and outpatient rotations in which >50% of the time is spent seeing adults (regardless of hospital setting – i.e., adult or pediatric) were to be counted as fulfilling the adult requirement.

We have no comprehensive data regarding the way these changes have been implemented across the country. In addition, the Council of Pediatric Subspecialties (CoPS) now requires pediatric subspecialties to begin fellowship programs offset from 1 July; they have asked us for specific information as to how this might impact Child Neurology and NDD training programs. The ABPN has asked us how the change to core status may impact the fiscal situation of Child Neurology and NDD programs, since some may have depended upon affiliated adult programs for part of their intrinsic financial support, and this change in status may thus have changed this.

We have successfully incorporated Program Coordinators as a new class of member in the PCN. Our collaboration and close coordination with them are essential to the efficient function of our training programs in an era of increased regulatory oversight and public scrutiny.

Thus, the ACGME, CoPS, and ABPN have asked us for these data, and none of the various questionnaires sent over the last several years, independently, by the Child Neurology Society, or any other organized body, capture all the impacts these changes have had on our training programs. By the time you read this, programs will have received a census form from the PCN with a comprehensive set of questions regarding the local options that have been exercised in these various domains. This is not a survey, in the sense that we would accept some percentage of programs responding as somehow representative, but is to be a comprehensive census. Please answer promptly once you have received the form for your program; we will stay in touch until we have heard from all programs in Child Neurology and NDD. The data thus obtained will be shared with the entirety of the PCN membership, and used to answer the questions posed to us by these other bodies.

Finally, I would like to call your attention to the annual lectureship being established at the University of Virginia in honor of Rob Rust, one of the premier neurologic educators of his generation. While the lecture will be seated at U. Va., the CNS and PCN are working on efforts to digitize the lectures, once established, and then share them through the website for our membership. Rob, who has given so much to child neurology and in particular to the formation of child neurologists, is one of the best we have. I urge you and the programs you represent to support this effort.

I am looking forward to seeing you in Vancouver. It has been a pleasure, and a privilege beyond any deserved, to have served as the president of this organization for the last two years.

I know that my successor, Dr. Gary Clark will serve the academic programs we represent with devotion, vigor, and care.

Peace,
David K. Urion, M.D., FAAN
President
David.Urion@childrens.harvard.edu

CONNECTING WITH PARTNERS
Association of Child Neurology Nurses

Maureen Sheehan, CPNP
President, ACNN

Dear Colleagues

Hello ACNN members,

Time to get ready to head to Vancouver, passport in hand.

We begin Tuesday evening, October 25, with the ACNN reception. Food and drink, fun and games, and a chance to meet new nurses and reconnect with old friends.

Wednesday the ACNN conference will run all day.

- At lunch we'll thank the board members who have completed their terms – Kathy O'Hara and Jo Ellen Lee – and welcome our new officers: President Elect, Tara Pezzuto; Secretary, Gretchen Heckel; and Director, Mona Jacobson.
- We'll recognize our 2016 award winners for excellence in child neurology nursing: Kathy O'Hara (Claire Chee Nursing Excellence Award), and Sue Yudovin (Nurse Practitioner Award.
- Debbie Terry will receive the Innovation in Clinical Practice Award. Earlier on Wednesday she will give a talk based on her research (funded by an Elizabeth Hobdell Research grant) and work with patients with non-epileptic events and their schools.

Thursday is our Annual 5K Fun Run/Walk to raise funds for the Elizabeth Hobdell Nursing Research Award. New this year: you and your colleagues can donate online. Visit http://www.childneurologysociety.org; Click on "Support CNS." In the drop down menu you will see the Hobdell Award. And don't forget to bring your running/walking shoes!

On Wednesday and throughout the conference, I admit, I will be shamelessly asking for your help in growing ACNN in the coming year. Are you a member of NAPNAP, AANN, and/or AANP? We want to build relationships with these organizations.

I have seen firsthand how committee work can inspire someone to take a leadership role (ask Mona!) ACNN has some incredibly dedicated committee chairs and members. You can choose from a year-round commitment (Conference Planning Committee) to a commitment that lasts just a few months (the Awards and Nominations Committees). Please ask those of us on the board and our current committee chairs and members why we do what we do. As for myself, I have met and am working with child neurology nurses from across the US and Canada who are passionate about creating a better world for our young patients and their families and for we the nurses who care for them. They have made me a better child neurology nurse.

We have had record-breaking registration this year but there is always room for more! Register through the Child Neurology website at http://www.childneurologysociety.org

The ACNN Conference Planning Committee (Mona Jacobson, Jennifer Boyd, Maria Zak, and I) cannot wait to see you there!

Maureen Sheehan

ACNN
ASSOCIATION OF CHILD NEUROLOGY NURSES

Kathy O'Hara, RN

The 2016 Association of Child Neurology Nurses Claire Chee Nursing Excellence Award

KATHY O'HARA, RN

PROFILE WRITTEN BY AMY VIERHILE, RN

The Association of Child Neurology Nurses is proud to award the 2016 Claire Chee Nursing Excellence Award to Kathryn O'Hara, RN. Kathy has been a nurse at Virginia Commonwealth University since 1985, where she specializes in the care of children with epilepsy.

Kathy is described by her colleagues as dedicated and compassionate with a "can do" attitude. Dr. Syndi Seinfeld, a pediatric neurologist and colleague of Kathy's, noted her tenacity in working with the difficult parent of a very ill child. Colleagues warned Kathy that the parent was challenging and impossible to work with, yet Kathy exuded caring and concern and built a therapeutic relationship with the family. Her connection with families is unsurpassed, as she recalls their complex histories, likes and dislikes and medication histories.

Kathy's connection with families is unsurpassed, as she recalls their complex histories, likes and dislikes and medication histories.

Research is an integral piece of Kathy's role and she is heavily involved in the launch and execution of multiple research studies. She is organized and thorough, completing the paperwork and scheduling for studies to run smoothly. Her knowledge of epilepsy medications allows her to act as a resource to physicians and residents who turn to her with questions.

Teaching is another aspect of her career that Kathy enjoys. She has trained school personnel, including teachers, school nurses and bus drivers, about epilepsy first aid and safety and she has extended that teaching to businesses and community groups. Her outreach to others has increased awareness of epilepsy in her community. Kathy is also well-versed in the management of the Vagus Nerve Stimulator and she educates residents about the use of the device.

Kathy seeks to learn about new medications and treatments and works tirelessly to gain the medications and other treatments that families need. She is described as going "above and beyond" while never losing empathy for her patients and peers.

Kathy has assumed a leadership role both locally and nationally, including, most recently, serving as Past-President of the Association of Child Neurology Nurses. She remains closely involved with ACNN, serving on various committees for the organization, as well as for the American Epilepsy Society. She is held in such high regard that Kathy has been selected as one of just a few nurses to review abstracts for the scientific portion of the AES annual meeting. Within her office setting, Kathy is the nurse manager, handling difficult situations diplomatically, and gaining the admiration and trust of her peers. She is fair and kind, and always acts in the best interest of others.

Ruth Shinnar, RN, MSN, who nominated Kathy for this award, stated that Kathy "has been, and continues to be, a shining light for the nursing profession." It is clear from the glowing tribute that Kathy received that she is an outstanding exemplar of nursing and highly deserving of the 2016 ACNN Claire Chee Nursing Excellence Award.

Sue Yudovin, CPNP

The Association of Child Neurology Nurses 2016 Nurse Practitioner Excellence Award

SUE YUDOVIN, CPNP

PROFILE WRITTEN BY AMY VIERHILE, RN

Sue Yudovin, RN, MN, CPNP is the recipient of the 2016 ACNN Nurse Practitioner Excellence Award. Sue has worked since 1995 as a Nurse Practitioner at UCLA, where she is also an Assistant Clinical Professor in the School of Nursing.

Sue was nominated by her physician colleagues, Drs. Meeryo Choe and Christopher Giza, who describe Sue as a champion for traumatic brain injury, expanding knowledge and care in the field through her dedication and perseverance. Dr. Giza noted Sue's encouragement and coaching in his effort to develop a neurotrauma program; her vision in recognizing a void enabled expansion of the program to include sports concussion management.

The area of traumatic brain injury is important to Sue and much of her work has involved creating a multidisciplinary TBI clinic as well as educating others through presentations and publications about the topic. Additionally, her work with epilepsy surgery and hemispherectomy patients has created a nurturing environment within the epilepsy community. Sue is compassionate and caring with the families she encounters and is described as "always patient, always a team player and leading people in the right direction toward a common goal." She recognizes the stress that patients and families feel during a critical illness and works to provide personal touches that make families feel cared for.

Sue was nominated by her physician colleagues, Drs. Meeryo Choe and Christopher Giza, who describe Sue as a champion for traumatic brain injury, expanding knowledge and care in the field through her dedication and perseverance.

Within her office setting, Sue is considered a strong mentor to nurses, physicians and residents. She advocates for advancements in care and has helped transform the field of child neurology. She has emphasized the importance of child neurology as a subspecialty and has focused on initiatives and research which have "moved the field forward."

Professionally, Sue is very active in the Association of Child Neurology Nurses and was invited to become the first nurse to join the Child Neurology Foundation Board of Directors. She has presented nationally on topics ranging from concussion and epilepsy surgery to neurology physical assessment and assessment of the critically ill patient. Sue has co-authored 15 publications focusing on traumatic brain injury and various topics related to epilepsy, such as interictal psychosis, tuberous sclerosis complex and infantile spasms. Additionally, she is involved in research efforts to advance knowledge in many areas of child neurology.

It is clear that her colleagues think highly of Sue and that is she very deserving of the Nurse Practitioner Excellence Award. The Association of Child Neurology Nurses is moved by her example in nursing and is honored to present the Nursing Excellence Award to Sue Yudovin in 2016.

Debbie Terry, APRN

Association of Child Neurology Nurses 2016 Innovative Practice Award

DEBBIE TERRY, APRN

PROFILE WRITTEN BY AMY VIERHILE, RN

The 2016 Association of Child Neurology Nurses Innovative Practice Award recipient is Debbie Terry, APRN. Ms. Terry assisted in the establishment of an urgent epilepsy clinic at Nationwide Children's Hospital in Columbus, OH.

The primary aim of establishing the Urgent Epilepsy Clinic was to decrease emergency room visits by 30% in three months for established patients with epilepsy, following their visit to the Urgent Epilepsy Clinic. The secondary aim of the program was to reduce unplanned hospitalizations by 10% within three months following the clinic appointment for the same population.

The primary aim of establishing the Urgent Epilepsy Clinic was to decrease emergency room visits by 30% in three months for established patients with epilepsy, following their visit to the Urgent Epilepsy Clinic.

The Urgent Epilepsy Clinic was held four days a week with one or two patients scheduled those days. Each visit took an average of 60 minutes, but could take as long as 90 minutes and was staffed by a nurse practitioner (Ms. Terry) and a social worker. Emphasis was on epilepsy teaching, including how to respond to a seizure and when to use the ED appropriately. Additionally, each patient had a seizure plan developed and their daily and abortive seizure medication plans reviewed and altered if necessary. The social worker reviewed any psychosocial barriers which may have led to increased emergency room visits and worked with families to develop solutions for any roadblocks that existed.

From October 2013 through July 2015, 317 patients were seen in the Urgent Epilepsy Clinic, with a 93% show rate, compared to the general clinic which had an 84% show rate. Patients who were thought to be at risk for an ED visit or unplanned hospitalization due to seizures were referred to the clinic. Criteria for referral included frequent emergency room visits, frequent or long phone calls to the triage nurses, parental anxiety and missed appointments. Of those, 83% of the patients were seen in the Urgent Epilepsy Clinic within five days of the referral and 54% within three days of the referral.

Since the appointments in the Urgent Epilepsy Clinic were longer than a general follow up appointment, the nurse practitioner and social worker could spend more time with each family, answering all of their questions, problem-solving any barriers and relieving parental anxiety. Of the 317 patients seen, 18% were suspected of having non-epileptic events and 13% were possible epilepsy surgery candidates. Both of these types of patients were referred to subspecialists for further evaluation and treatment.

There was a significant cost savings of $92,000 due to decreased emergency room utilization and $433,584 due to unplanned hospitalizations during the time of the study. Parents and patients expressed satisfaction with the program, relating that they felt more confident in managing their child's seizures and that their child's seizures were better controlled as a result of the intervention they received in the Urgent Epilepsy Clinic. Neurology providers expressed satisfaction because they did not need to fit in an urgent patient. The cost savings from the program allowed the department to hire another social worker to help with the epilepsy program.

Supportive letters from Drs. Anup Patel and E. Steve Roach were provided with Ms. Terry's application for the Innovative Practice Award. Dr. Roach commented that "the true value of the program is its benefit to the patients we serve" in preventing an unnecessary emergency.

CONNECTING WITH PARTNERS
Child Neurology Foundation

William Trescher, MD
President, CNF

Dear Friends

The evolution continues. Over the last several years, the Board of Directors and staff of the Child Neurology Foundation (CNF) have worked closely and productively with their counterparts in the Child Neurology Society (CNS) to redefine and clarify the mission of the CNF. These conversations recognize that both organizations share the common goal of improving the lives of children and their caregivers living with neurologic conditions. With this acknowledgement, CNF has focused its mission to serve as a collaborative center of education and support for these children and their families. We understand that we will only be successful in the implementation of this mission by working in collaborative partnerships with many – most notably, CNS.

It is paramount that CNF's work bridges with the work of child neurologists in supporting the needs of their patients. Two important tangibles CNF has already demonstrated with this redefined mission are the 2016 Infantile Spasm Advocacy Forum and the Transitions Project. In the same spirit, this year the CNF is sponsoring the second annual CNF Symposium at the CNS Meeting on Saturday, October 29. We are excited to present a program on "Cannabis in Epilepsy: Clinical Science, Parent & Advocacy Perspectives." As with last year's program on infantile spasms, the goal is to move beyond the medical science and incorporate the perspectives of the parents and advocacy partners in meeting the challenges those patients and their caregivers face. We extend our appreciation to all those who have chosen to participate in this program as well as to all of those CNS members and parents who responded to the surveys on cannabis use for epilepsy. To learn more about CNF's current efforts, visit us at www.childneurologyfoundation.org.

From all of us at the CNF, we thank you for your support,

William H. Trescher, M.D
President of the Board of the CNF

Child Neurology FOUNDATION
Creating a Community of Support

Our Mission:
To serve as a collaborative center of education and support for children and caregivers living with neurologic conditions.

Our Vision:
We envision a world in which all children affected by neurologic conditions reach their full potential.

CONNECTING WITH PARTNERS
Child Neurology Foundation Grants

Louis Manganas, MD, PhD

2016 Child Neurology Foundation PERF Scientific Research Grant: $100,000

LOUIS MANGANAS, MD, PHD

STONY BROOK UNIVERSITY MEDICAL CENTER

Quantification of neural progenitor cells in new onset pediatric seizures.

My research interests focus on neurogenesis, the birth of new neurons, which occurs throughout adulthood in the mammalian brain. Specifically, I'm interested in how neurogenesis may influence the development of epilepsy after a new onset seizure. As a postdoctoral fellow I was able to show that neural stem cells cultured from a mouse brain had a unique metabolic profile using NMR when compared to other brain cells, including mature neurons, astrocytes and oligodendrocytes. Furthermore, non-invasive detection of this unique metabolic profile was possible using MRI/MRS in animals and humans, thus also allowing for quantitative measurement of mammalian neural stem cells in vivo. Epileptogenesis is defined as the time period between a new onset seizure and a second seizure, thus establishing the diagnosis of epilepsy. It is believed that during this time period, epileptic networks are being formed. After a seizure has occurred, neural stem cells begin to divide. One theory of epileptogenesis proposes aberrant connections among these newborn neurons leading to epilepsy. Whether the extent of neural stem cell division or proliferation correlates with risk for epilepsy is unknown. About 50% of patients who have had a single seizure will go on to develop epilepsy. Using MRI/MRS along with the unique neural stem cell metabolic profile to quantify neurogenesis may ultimately allow one to non-invasively determine who would be at risk for epilepsy after a seizure.

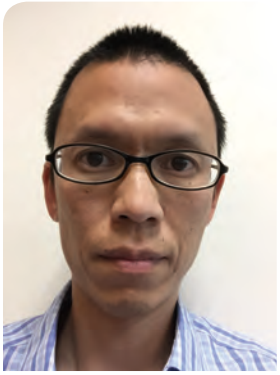
The CNF PERF Research Grant will provide for an increased understanding of epileptogenic mechanisms as they relate to neural stem cell proliferation and, as a result, the development of a prognostic biomarker for epilepsy. My goal would be to use this biomarker as a tool to determine who would be at risk for epilepsy after an initial seizure and help develop therapeutics to target neural stem cell proliferation.

CHILD NEUROLOGY SOCIETY

Child Neurology FOUNDATION
Creating a Community of Support

In 2016, the Child Neurology Foundation Grant Committee merged with the CNS Awards Committee and a unified application was created. The application deadline for the 2017 CNS Philip R. Dodge Young Investigator Award and the CNSF PERF, Shields, and LGS research grants is April 1, 2017.

CONNECTING WITH PARTNERS
Child Neurology Foundation Grants



Peter Tsai MD, PhD

2016 Child Neurology Foundation Shields Research Grant: $100,000

PETER TSAI MD, PHD

UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER

Cerebellar-Cortical Circuits in Autism Spectrum Disorders.

Autism is a prevalent disorder that affects nearly 1-in-68 children in the United States. Despite the high prevalence, the underlying causes continue to be poorly understood. Recent studies are emerging, however, that point to an important role for the cerebellum, a part of the brain that, until recently, had been believed to only have roles in regulating movement and controls of motor function. My lab and others have recently demonstrated that cerebellar dysfunction is sufficient to generate autistic behaviors in autism mouse models. However, how this brain region impacts autism behaviors remains unknown. We hypothesize that the cerebellum regulates autism-related behaviors by coordinating brain circuits mediating these behaviors.

The support provided by the Child Neurology Foundation Shields Grant will allow me to investigate the brain circuits regulated by the cerebellum that mediate autistic behaviors in mouse models and to then further investigate whether these circuits are similarly disrupted in children with autism spectrum disorders. We will utilize a number of cutting edge techniques from small animal structural connectivity MRI to targeted modulation of brain circuits in our autism models to not only define these brain circuits but also investigate whether modulation of these circuits can benefit autism behaviors in these models. Concomitantly, we will also investigate the integrity of these circuits in individuals with autism, using publically available imaging from the Autism Brain Imaging and Data Exchange (ABIDE) database. Results obtained from these studies will help me prepare further studies on the underlying etiologies of autism while also providing the foundation for developing clinical studies targeting brain circuits as a potential therapeutic strategy for individuals with autism.

Eric Payne, MD, MPH, FRCP(C)

2016 Child Neurology Foundation Michael SanInocencio Lennox-Gastaut Syndrome Research Grant: $30,000

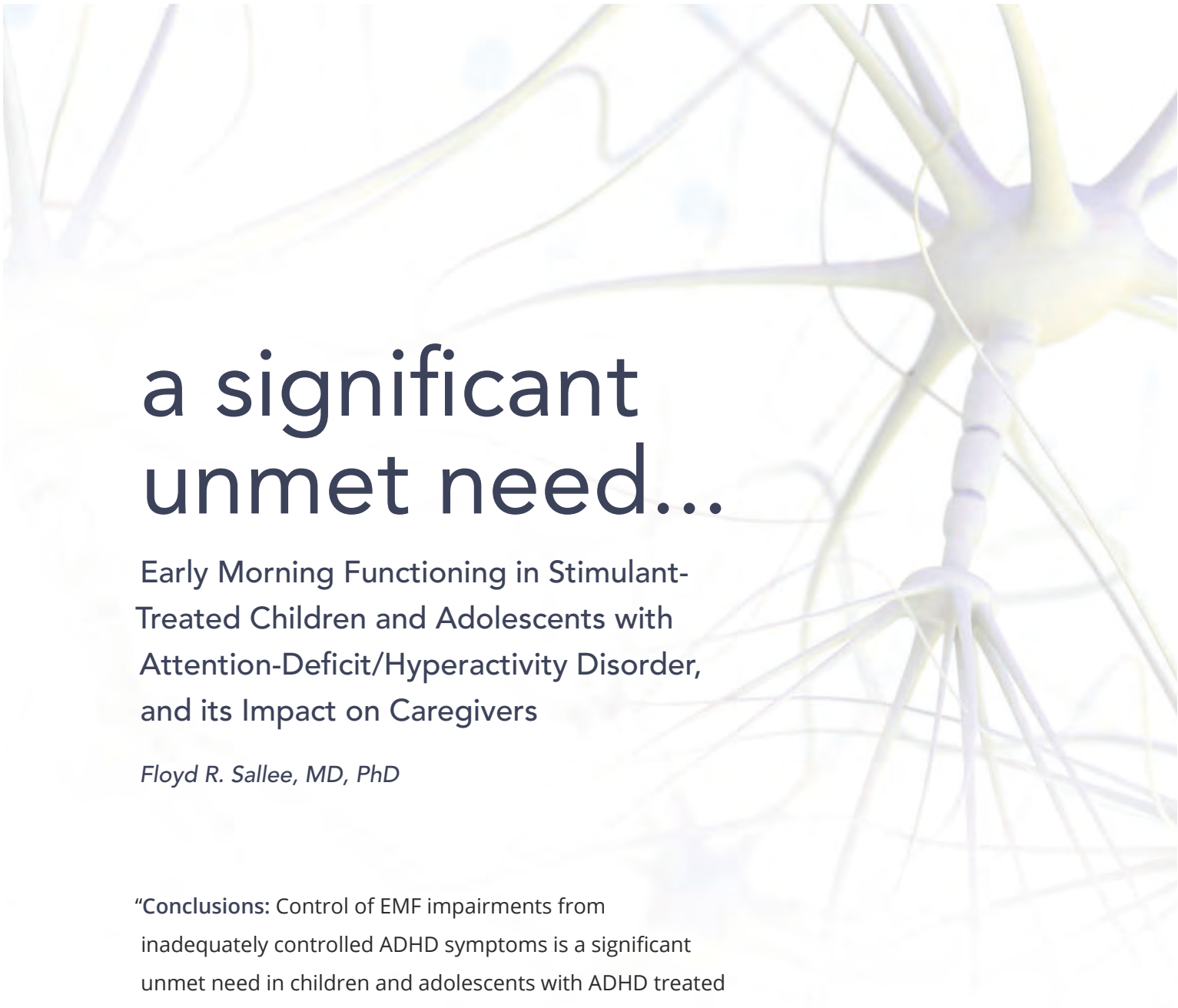
ERIC PAYNE, MD, MPH, FRCP(C)

MAYO CLINIC ROCHESTER

Neurophysiological and Inflammatory Biomarkers of Seizures and Brain Injury in Children

The purpose of the study is to better understand the role of inflammation among critically ill neonates and children with recent brain injury and among children with early onset epilepsy that is negatively impacting their development and learning. In addition, we are using advanced EEG technology to assess brain injury, seizures, and hopefully better predict outcomes.

I am extremely grateful to the CNF for their funding support! This grant will help to provide the foundation for a research career aimed at improving the lives of children with brain injury and epilepsy.



a significant unmet need...

Early Morning Functioning in Stimulant-Treated Children and Adolescents with Attention-Deficit/Hyperactivity Disorder, and its Impact on Caregivers

Floyd R. Sallee, MD, PhD

"**Conclusions:** Control of EMF impairments from inadequately controlled ADHD symptoms is a significant unmet need in children and adolescents with ADHD treated with stable morning doses of stimulant medications. Current orally administered stimulant treatment options have not addressed this challenge."

READ THE FULL ARTICLE ONLINE:
ironshorepharma.com/ADHD

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FORTY-FIFTH

CNS

ANNUAL MEETING

Vancouver Convention Centre
Vancouver, BC
October 26-29, 2016

CHILD NEUROLOGY SOCIETY

MINNESOTA MEDICAL ASSOCIATION

Mark Your Calendars...

...and Set Your "Inner GPS" for 4 Key Networking Events at This Year's CNS Annual Meeting

1 Welcome Reception

Reprising last year's hugely successful first-time staging of CNS Welcome Reception in the Exhibit & Poster Hall

Wednesday | 6:00-8:00 PM
Exhibit Hall CD

- Greet newly arrived friends
- Stop by Exhibit Booths
- Recap the day's NDC, PCN and ACNN meetings
- Get a jump on filling out your Passport for Friday & Saturday prize drawings

Seattle Children's
HOSPITAL · RESEARCH · FOUNDATION

Financial support provided by 2016 CNS Annual Meeting host institution, Seattle Children's Hospital

2 Child Neuro Nightcap

Neuro-Humanities Seminar:
Neurology in Art, Literature and Music
Organized by Phillip Pearl, MD

Wednesday | 8:00-10:00 PM
(immediately following Welcome Reception)
Ballroom B (next to Welcome Reception)

This year's ChildNeuroNightcap, with dessert and coffee, features a seminar on Neuro-Humanities with talks by Drs. Audrius Plioplys, Marc Patterson, and Phillip Pearl. (Add a dollop of 2.0 CME Credits to that cafe au lait)

3 Continental Breakfast

Pastries, Posters & "Eggshibits" (Oh my!) Reprising last year's hugely successful first-time staging of Friday morning continental breakfast and a final opportunity to view posters and visit exhibit booths

Friday | 7:00-8:15 PM
Exhibit Hall CD

- Presenting authors required to stand by posters for interaction
- Exhibit booths open 7:00 AM-10:30 AM
- Great opportunity to complete Passport

4 Friday Gala

Legacy Reception from 6:30-7:00 PM in Room 306 for those who attended their first CNS meeting in 1991 or earlier.

Friday | 7:00 PM-10:00 PM

CNS Awards Committee Update

The Child Neurology Society will recognize six members at the 45th Annual CNS Meeting in Vancouver, BC with the presentation on the following awards:

By Nigel Bamford, MD | Chair, CNS Awards Committee

CNS Roger and Mary Brumback Lifetime Achievement Awards

Presented to Kalpathy Krishnamoorthy, MD
Thursday morning, October 27
Introduction by Ann Neumeyer, MD

Presented to Doris Trauner, MD
Thursday morning, October 27
Introduction by Richard Haas, MD

CNS Philip R. Dodge Young Investigator Award

Presented to Diana X. Bharucha-Goebel,
(with lecture to follow)
Friday morning, October 28
Introduction by Carsten G Bönnemann, MD

CNS Bernard Sachs Award

Presented to Harvey Sarnat, MD
(with lecture to follow)
Friday morning, October 28
Introduction by Jong Rho, MD

The Arnold P. Gold Foundation Humanism in Medicine Award at the Child Neurology Society

Presented to Oscar Papazian, MD
Friday morning, October 28
Introduction by Leonardo Garcia, MD

CNS Hower Award

Presented to Harvey Singer, MD
(with lecture to follow)
Saturday morning, October 29
by Eric Kossoff, MD

Those honored were selected by the CNS Awards Committee and subsequently approved by the CNS Executive Committee. The CNS Awards Committee is composed of the chair, twelve standing members (4-year terms) and three Young Investigator Awardee members (3-year terms). The committee membership draws from a breadth and depth of seniority and experience in pediatric neurology, and the constant influx of the prior three Young Investigator Awardees provide a fresh outlook each year.

The Awards Committee meets at the CNS Annual Meeting to consider nominations for the following year's Sachs, Hower, Lifetime Achievement, and Gold Humanism in Medicine Awards submitted by members of the Child Neurology Society. All CNS members are encouraged to submit nominations (the deadline for submitting nominations for 2017 awards was September 15). In 2016, the Child Neurology Foundation Grant Committee merged with the CNS Awards Committee and a unified application was created. The application deadline for the 2017 CNS Philip R. Dodge Young Investigator Award and the CNSF PERF, Shields, and LGS research grants is April 1, 2017.

Profiles of this year's award recipients, featured on pages 30-43 and on display in the registration foyer, were written by Drs. Robert S. Rust, John Mytinger, and Leonardo Garcia.

Other Awards to be given at

45th CNS Annual Meeting

ACNN Claire Chee Excellence in Child Neurology Nursing Award

Presented to, Kathryn O'Hara, RN
at ACNN Meeting on Thursday, October 27; announced at CNS Meeting on Friday, October 28

ACNN Nurse Practioner Award

Presented to Sue Yudovin, RN, MN,
at ACNN Meeting on Thursday, October 27; announced at CNS Meeting on Friday, October 28

Bernard J. D'Souza International Fellowship Award

Presented to Arushi Gahlot Saini, MD, DM, MNAMS and Tipu Sultan, MD
on Thursday, October 27
Introduction by Jorge Vidaurre, MD, Chair, CNS International Affairs Committee

CNS-PCN Blue Bird Circle Training Program Director Award

Presented to David K. Urion, MD, FAAN
on Friday, October 28
Introduction by Scott Pomeroy, MD, PhD

CNS Bhuwan Garg High School Neuroscience Award

Presented to Ryan Infante
on Friday, October 28

CNS Outstanding Junior Member Awards

Presented on Friday, October 28

- **Sonika Agarwal, MD**
  Baylor College of Medicine
- **Darius Ebrahimi-Fakhari, MD**
  Boston Children's Hospital
- **Juliane Gust, MD, PhD**
  Seattle Children's Hospital
- **Manisha Malik, MD**
  Emory University

AAP Section on Neurology Travel Scholarship Award

Presented on Friday, October 28
Sharoon Qaisar, MD
University of Kentucky Medical School

M. Richard Koenigsberger Scholarship

Presented on Friday, October 28
Ann McCarthy, MD
Children's Hospital of Philadelphia

Child Neurology Foundation Grants

Presented on Friday, October 28

- **PERF Grant:**
  Louis Manganas, MD, PhD
  Stony Brook University Medical Center
- **Shields Grant:**
  Peter Tsai, MD, PhD
  Texas Southwestern Medical Center
- **Michael Lennox Syndrome Research Grant:**
  Eric Payne, MD, MPH, FRCP
  Mayo Clinic

CNS Roger and Mary Brumback Lifetime Achievement Award

Kalpathy Krishnamoorthy, MD

Presented
Thursday, October 27

KALPATHY KRISHNAMOORTHY, MD

PROFILE WRITTEN BY ROBERT S. RUST, MD, MA

Professor Kalpathy Krishnamoorthy was born in Secunerabad, India. His collegiate and professional degrees were all earned in India: undergraduate from the P.S.G Arts College (1956), premedical from St. Joseph's College (1957), M.B.B.S.in Medicine from the Madras Medical College (1964), and an ensuing Postgraduate Medical Diploma (D.C.H.) from the Bombay College of Physicians (1966). Training in pediatrics occurred in several distinguished programs in India (completed as Chief Resident). His interest in pursuing a career in child neurology was made on the basis of the interest and concern that arose as he saw children with neurological diseases. One individual in Bombay, Professor S. M. Merchant, was responsible for arousing this interest. In Dr. Krishnamoorthy's words, "Professor Merchant laid the foundation to my career." It is likely that that individual had something to do with planting the seeds that were to result in Dr. Krishnamoorthy's career-long devotion to the processes of medical student and housestaff education. Two years of pediatrics residency in the United States was arranged, followed by three years of training as a neurology resident at the Massachusetts General Hospital/Harvard Medical School. It was during his neurology training that Dr. Krishnamorthy's exposure to neurological management of neonates confirmed the further direction his career would take.

Dr. Krishnamoorthy's fascination with the neonatal diseases was greatly enriched by several role models, particularly Ray Adams and Robert DeLong. Keen interest in neuroscience also arose because of the examples provided not only by Adams and DeLong, but also by Alan Leviton. Robert DeLong was the person who initially aroused what would be a particular career-long focus of Dr. Krishnamoorthy's: the then rather incompletely understood phenomenon of neonatal brain hemorrhage. His fascination with a problem that was then poorly understood in almost any meaningful way (cause, evolution, and treatment in particular) inspired significant advances in neurological understanding, prevention, and treatment in this area.

Dr. Krishnamoorthy's exceptional abilities were well-recognized at Harvard. Upon completion of his neurology residency, he was appointed Instructor in Pediatrics and Neurology, with ensuing advancement to Professorship in Pediatrics and Neurology at Harvard in 2003. New role models emerged at MGH, including Daniel Shannon, David Todres, Verne Caviness, and Karl Kuban. Dr. Krishnamoorthy's interest in neuroradiology was roused by Ellen Grant. She demonstrated the manner in which advancements in imaging technology would provide many opportunities to explain and understand the neurological diseases of the infants Dr. Krishnamoorthy encountered.

Other persistent interests that arose early in Dr. Krishnamoorthy's career were inspired and cultivated by superb role models, including epileptologists Greg Holmes and Mohamad Mikati, and metabolic disease experts Vivian Shih, Harvey Levy, and Marvin Natowicz. Additional exceptional mentors cultivated persistent professional interest in other areas of neurology and neuroscience that have retained Dr. Krishnamoorthy's clinical and scientific efforts throughout his career: Peter Rosenberger joined Professor DeLong as a mentor and role model for the behavioral aspects of neurology; Marvin Natowicz, Aogsli Lin, and Lew Holmes did so for genetics; Leon Dure for movement disorders; Katherine Sims, Ed Kolodny and Marvin Natowicz for degenerative disorders; Keith Chiappa and Kenneth Sarrower served as fine EEG mentors. Carsten Bönnemann was instrumental in shaping Dr. Krishnamoorthy's understanding of electroencephalography, neuromuscular diseases and muscle electrophysiology.

Dr. Krishnamoorthy has served as a consulting neurologist in the Newborn Intensive Care Unit of the Massachusetts General Hospital for 42 years. He served for 33 years as Director of the NICU Follow-up Program and for 24 years as Co-Director of the MGH Pediatric Neurology Ambulatory Clinic. He was a member of the MGH Intern Selection Committee of the Pediatric Service for 14 years and a member of the Resident Selection Committee for candidates to train in Child Neurology for 40 years. He has been an Evaluator and Advisor to the Resident Education Committee of the MGH for the past 14 years. Dr. Krishnamoorthy served as an examiner for Oral Boards in Child Neurology for 22 years.

Professor Krishnamoorthy has been particularly recognized for the active and intelligent role that he has played as clinical preceptor for both adult and child neurology residents in the MGH clinic and ward services. From 1974-2009 he participated in all ongoing consultations in the NICU and the inpatient services of the MGH. His educational efforts involved both child neurology and pediatric residents.on his service. He participates as well in Brain Cutting Conference and the Neuro-Radiology Teaching Conference and fulfills rotations on the inpatient Pediatric Service. He plays quite a responsible role in teaching Child Neurology to Child Psychiatry Residents. He served as Consultant for the MGH myelodysplasia program from 1976-2000, and to the SIDS program of the MGH from 1976-1985.

The research performed by Dr. Krishnamoorthy and his collaborators has chiefly concentrated on pioneering studies of the neonate, including diagnosis, management, and outcomes of hypoxic-ischemic encephalopathy, intracranial hemorrhage of prematurity, metabolic diseases, and of seizures. One particularly important contribution was made by a collaborative study funded by NINCDS that not only demonstrated the lack of efficacy of this approach for the prevention of intraventricular hemorrhage, but also the tendency of this approach to increase the risk for neonatal ventriculomegaly. Dr. Krishnamoorthy has made important contributions, in collaboration with Dr. Paul Caruso, to fetal neurology. The knowledge that he has gained has been based on evaluation and management of more than 5000 neonates. Dr. Krishnamoorthy has proven a valuable participant in the ELGAN group studies of the neonate, collaborating with and supporting the efforts of Professors Leviton, Kuban, Todres, and Natowicz, along with radiologist, Ellen Grant. The MGH group pioneered the use of CT scans for diagnosis of intraventricular hemorrhage and have published numerous important papers on the developmental outcome of intraventricular hemorrhage.and the clinical factors that determine it, particularly post-hemorrhagic hydrocephalus and parenchymal hemorrhage. Dr. Krishnamoorthy has collaborated with the efforts of this group to better understand neonatal hypoxic-ischemic brain injury and intraventricular hemorrhage, and demonstrating the deleterious effects of the then-in-vogue use of phenobarbital in hopes of reducing the risk of intraventricular hemorrhage. The group also refined the recognition and management of herpes encephalitis, of pyridoxine dependent seizures, and possible prevention of myelin dysmaturity of the neonate. Professor Krishnamoorthy collaborated with and supported the efforts of Professor Kuban and colleagues in placing emphasis on the particular importance of early diagnosis and initiation of management of cerebral palsies. Together with Dr. M. Natowicz, Dr. Krishnamoorthy participated in refinement of neuroradiological labeling and interpretation of imaging findings related to myelin maturation.

Clinical teaching has been an area in which Professor Krishnamoorthy has placed great importance and expended considerable effort. He has played a role in the education of 52 individuals who trained in neurology at the MGH from 1978 to the present and have subsequently held faculty positions at various locations throughout this country and around the world. Dr. Krishnamoorthy has provided 136 invited lectures, either locally or at other medical centers throughout the country. Six CPC excercises for which he was the Invited Discussant have been published in the *New England Journal of Medicine*. Dr. Krishnamoorthy has made 62 presentations at national meetings. He has published six book chapters and fifteen review papers in journals.

Dr. Krishnamoorthy and his colleagues have published 74 excellent peer-reviewed original papers. He was the first author of 20 of these publications and senior author of nine. The papers are listed below by subject, the number of papers in each topic are indicated parenthetically. They include: Addison disease sciatica (1), Aicardi syndrome (1), Autoimmune nervous system injury (1), Blood volume and oxygen consumption effects on outcome of neonatal brain injury (1), Brachial plexus palsy (1), Brain imaging (7), Cerebral palsy: importance of early diagnosis and management initiation (1), Childhood stroke (2), Delayed myelination of neonates (2), Developmental brain abnormalities (2), Developmental characteristics of the neonate (1), Diffusion-weighted imaging of neonatal brain (1) DiGeorge syndrome vasculopathy (1), Drug toxicities (2), Epilepsy (8), Headache (1), Heritable metabolic diseases (2), Hypoglycoracchia in infantile HSV meningoencephalitis (1), Hypothalamic hamartoma (2), Infantile astrocytoma (1), Infantile myofibromatosis (1), Intracranial hypertension (3), Intraventricular hemorrhage (3), Joubert syndrome (2), Maturation of infants of mothers with myotonic dystrophy (1), Morbidity and mortality in children (1), Muscle-eye-brain disease (1), Neonatal apnea (1), Neonatal brachial plexus palsy (1), Neonatal brain injury – importance of early diagnosis (1), Neonatal catheter-related vasculopathy (1), Neonatal low-grade IVH outcome (2), Neonatal hearing loss (2), Neonatal herpes encephalitis (1), Neonatal hypertonia (1), Neonatal hypoxic-ischemic encephalopathy (2), Neonatal ischemic brain injury (2), Neonatal intraventricular hemorrhage (7) Neonatal near-infrared spectroscopic imaging (3), Neonatal respiratory distress syndrome (1), Neonatal seizures (1), Neonatal SIADH (1), Neonatal stroke (6), Neonatal thrombocytopenia (1), Neuromuscular disease (1), Non-epileptic events (1), Paroxysmal headache with visual changes (1), Phenobarbital intoxication (1), Phenytoin-related choreoathetosis (1), Prader-Willi syndrome (4), Prediction of microcephaly in neonates (1), Pyridoxine dependency seizures (3), SCAD deficiency (1), Sulfite oxidase deficiency (1), Thalamic stroke (1), and Training innovations (1).

Dr. Krishnamoorthy has long served as an *ad hoc* Reviewer for the *New England Journal of Medicine, Pediatrics, Journal Watch Neurology, The Journal of Developmental and Behavioral Pediatrics, Journal of Pediatrics.* and for *Neuropediatrics.* He is an Abstract Reviewer for the Pediatric Academic Society/ Eastern Society for Pediatric Research. Professor Krishnamoorthy has received numerous prestigious awards. The first of these were awarded in India and include Best Performance in Medical Jurisprudence as a 4th year Medical Student (1962); Best Junior Resident Award in Pediatrics, Wadia Hospital for Children, (1965); Student Gold Medal Award. College of Physicians & Surgeons, Bombay (1966); Best Chief Resident Award in Pediatrics, Irwin Hospital New Delhi (1968). During his time on the faculty of the Massachusetts General Hospital, Dr. Krishnamoorthy's additional awards have included several Teacher of the Year Award, Neurology Service (1993, 2003, 2006, 2010), and the Partners in Excellence Award (2004). This year, fittingly, he is the recipient of the CNS Roger and Mary Brumback Lifetime Achievement Award of the Child Neurology Society.

CNS Roger and Mary Brumback Lifetime Achievement Award

Doris Trauner, MD

Presented
Thursday, October 27

DORIS TRAUNER, MD

PROFILE WRITTEN BY ROBERT S. RUST, MD, MA

Doris Trauner majored in biology at the College of Notre Dame of Maryland, where she received honors at graduation. During college she was awarded an NIH-Public Health Service Summer Research Fellowship. Three years of ensuing training at Case Western Reserve, supported by an NIH Graduate Training Fellowship, earned her a Master's degree in Physiology for research completed in the Department of Psychiatry. She attended medical school at the Medical College of Virginia and was awarded her M.D. in 1972. During two years of medical school she also held the position of Research Associate and carried out investigations in the Department of Physiology. Her decision to become a neurologist was influenced particularly by the examples provided by professors Ron David, Roger Rosenberg, Cary Suter, and Hooshank Kooshmano. Her decision to specialize in child neurology was due in particular to the influence of Ron David. Dr. Trauner trained in pediatrics at the University of California, San Diego, followed by a year of residency there in neurology. This was followed by a two year Fellowship in Pediatric Neurology at the University of Chicago under Peter Huttenlocher.

The combined influence of Ron David and Peter Huttenlocher strongly confirmed her intention of entering a career that would continue to include neuroscientific investigations. Indeed, her first research award, from the Chicago Pediatric Society, was presented during her child neurology training. She received excellent training in epilepsy and neurometabolic diseases from Peter Huttenlocher, areas of concentration that would form major parts of a career that would include bench and clinical neuroscience and quite a considerable dedication of time to medical education. Other areas of subspecialization have included cognitive development of children, behavioral neurology, electroencephalography, and intractable epilepsy. Professor Trauner received ABPN certification in Neurology with Special Competence in Child Neurology in 1979, and was initially certified in Neurodevelopmental Disabilities in 2001with re-certification in 2011.

Professor Trauner rose from Assistant to Associate Professorship in Neurosciences and Pediatrics 1983. In 1985 she was elevated to Associate Professorship in Neurology. She has served as Adjunct Professor of Psychology and San Diego State University from 1995 to the present. Dr. Trauner was also elevated to Professorships in the Departments of Neurosciences and Pediatrics in 1988, titles that were amended to Distinguished Professorships of Neurosciences and Pediatrics in 2014. Given her career-long highly successful devotion to providing and, where possible, improving the practice of clinical neurology, along with her profound devotion to teaching, mentoring, research, and publication, it is noteworthy that Dr. Trauner has held a remarkable number of important administrative positions as well. She was Director of the Learning Evaluation Clinic at UCSD from 1977-1985 and Chief of the UCSD Department of Neurosciences, Division of Pediatric Neurology from 1979-2014. She served two terms as Vice Chair of the UCSD Department of Neurosciences (1985-1990, 1993-2007). She has been Director of the Project in Cognitive and Neural Development at UCSD from 2003 to the present. She became the first woman to be elected as Chair of the School of Medicine in 2002.

During her highly successful caree, Dr. Trauner has received many awards. Very early in her career (1976) she received the Chicago Pediatric Society Research Award. Awards that have followed at UCSD include the Neurosciences and Clinical Teaching Faculty Award 1980-81, the Award for Outstanding Service to the Department of Neurosciences, the 1984 Senior Faculty Teaching Award, and the Neurosciences Award for 1996-97. She has been listed in Best Doctors in America every year from1996 to 2013. In 2006 she was recognized as a Distinguished Alumna at the College of Notre Dame of Maryland. In 2008 she was awarded the Pritchard Lectureship of the University of Toronto. In 2009 she was awarded the Bruce Berg Lectureship of the University of California San Francisco. In that same year she was recognized with San Diego's *Women Who Mean Business Award*. She received the Lifetime Achievement Award of the National Reye's Syndrome Association in 2010. In 2012 she was recognized as the Top Neurologist in La Jolla by International Association of Healthcare Professional. She achieved a place among the Top Doctors in America by *US News and World Report* in

2012. In that same year she was elected to Alpha Omega Alpha.

Dr. Trauner has competed successfully for 28 research grants from 1977 to the present, including: Easter Seals (1), American Cancer Society (1), March of Dimes (1), National Reye's Syndrome Foundation (1), Stallone Foundation for Autism Research (1); and 10 NIH competitive grants for the study of various aspects of normal and abnormal aspects of neurodevelopment; she has served as PI, Co-PI, or Site PI for nine of these.

Given her exceptional leadership skills, fairness, and vision, Dr. Trauner has been greatly in demand throughout her career for services on important national and local committees, often assuming various senior leadership roles. The committees include two of the AAN, two of the AAP, and nine of the CNS, serving also a term as Councillor for the CNS from 1986-88. She has served on four Study Sections of the NIH and one of the Institute of Medicine. She has served on 16 university-wide committees of the University of California San Diego, including service as Chair of the Faculty Council. She has also served on 14 Departmental Committees, 16 Hospital Committees, and sat on the Medical School Board of Governors. She has taught eight medical school courses over varying intervals of 2-3 years. A particularly great commitment was made during each of three years to the Neuroscience course. A course entitled *Evidence for Neuroplasticity* was offered in 2010 with Dr. Trauner as the sole lecturer. Professor Trauner has served as a reviewer for 24 journals.

Dr. Trauner has sustained an extraordinary amount of effort as an educator at all levels. She is currently a mentor to three members of the junior faculty in her section. She has recruited and directed the training of 20 child neurology residents. She has also recruited and trained one Neurodevelopmental Disabilities Fellow. She currently sustains 12 advisorships for medical students. Over the years she has served as a thesis advisor for the Independent Study Projects for 47 medical students and the mentor for the summer research projects of 18 1st year medical students. She has been a member of the thesis committees for two senior medical students. She has been a member of the dissertation committees for 12 graduate students, variously from neurosciences, psychology, linguistics, or cognitive sciences. She was a member of Minor Proposition Committees for three neuroscience graduate students and was the postdoctoral research advisor for eight. She has been the Advisor to two individuals in the International Physician Master of Clinical Sciences Program. Professor Trauner has been the dissertation advisor to five graduate students, all of whom succeeded in having their advanced degrees conferred. She has quite successfully directed the Undergraduate Student Internships of 45 individuals, including seven individuals who completed successful Honors Theses. One neuroscience graduate student successfully completed a laboratory rotation with Dr. Trauner. Nine medical students have also successfully completed research electives with Professor Trauner, as have six neurology residents. Twelve high school students have done so as well.

During her career, Dr. Trauner has produced 151 original papers. She served as the first author of 33, the senior author of 47, and the sole author of 26 of these papers; she was thus the senior participant in nearly two thirds of them. The subjects of these original reports (the number of papers in each category are indicated parenthetically) include: affective facial expression after early brain injury (2), anticonvulsant toxicities (1), apraxias (2), Asperger syndrome (2), Autism (10), behavioral disturbances after early brain injury (1), block design error assessment after early brain injury (1), cardiac neuroregulation (4), cerebral maturation in adolescence (1), childhood post-stroke perceptual asymmetry, the effective approach to clinical judgement (1), CNS vasculitis (2), comparative efficacy of language impairment tests (1), corpus callosal volume loss after prenatal or postnatal stroke (1), cortical and subcortical brain development in normal children and adolescents (1), developmental visual perceptive errors (1), dialysis encephalopathy (1), disabilities produced by focal brain injuries (1), Down syndrome (1), dysprosodia after early brain injury (1), and epilepsy (8).

The subjects of additional original papers include free radical cerebral metabolism (1), heritable metabolic diseases (28), higher cortical function disturbances (9), imaging approach to mild traumatic brain injury, intracranial hypertension (2), intraventricular hemorrhage (1), learning disabilities, including selection of testing strategies (14), monoclonal antibody neurological toxicity (2), movement disorders (2), nephopathic cystinosis (6) , neurobehavioral disturbances (3), neurocognitive testing of anticonvulsant toxicity (1), neurodevelopmental disorders (2), neurogenic speech and language disorders, neurological intoxications (4), neuro-ophthalmology (4), neonatal stroke (21), childhood stroke (4), osteomyelitis (2), ethical aspects of "persistent vegetative state" (1), plasticity of developing brain (3), post-stroke cortical corpus callosal volume loss (1), prenatal cerebral injury pathophysiology and outcome (2), proprioceptive error testing (1), Rett syndrome (2), Reye syndrome (21), rickets (2), Schwachman-Diamond syndrome (1), speech disturbances after caudate nuclear injury (1), Syringomyelia (1), traumatic brain injury (3), uremia (1), verbal and non-verbal IQ disparity after childhood stroke (1), visual attentiveness testing (1), and Williams syndrome (5).

Professor Trauner has published two books as sole author: *Childhood Neurological Problems: A Textbook for Health Care Professionals* (1979) and *Cystinosis and the Brain* (2013). She served as a co-author of *Neural Plasticity and Cognitive Development: Insights from Children with Perinatal Brain Injury*. She has published 40 chapters from 1977 to the present, the subjects of which are similar to the subjects of her published original papers; she is the sole author of 29 of these chapters, the senior author of 8. In addition to many presentations at various neurological societies in North America, Professor Trauner has been invited to deliver 21 honorary and overseas lectures; the locations of these lectures include Leuven, Belgium (1), Sao Paulo, Brazil (1), Calgary, Canada (1), Montreal, Canada (2), Toronto, Canada (2), Victoria, Canada (1) Manchester, England (2), Walsall, England (1), Traunstein, German (1), Amsterdam, Holland (1), Dublin, Ireland (2), Bergamo, Italy (2), Lisbon, Portugal (1), Tarragano, Spain (1), and Valencia, Spain (2). Professor Trauner's interests outside of medicine and neuroscience include, in addition to her family, reading, travel, aerobics, and music.

CNS Bernard Sachs Award

Harvey Sarnat, MD

Presented
Friday, October 28

HARVEY SARNAT, MD

PROFILE WRITTEN BY ROBERT S. RUST, MD, MA

A Chicago native bearing both American and Canadian citizenship, Harvey Sarnat's natural interest in science was fostered by neurozoological studies at the University of Illinois, Urbana, earning a Bachelor of Science degree in 1963 and having benefited particularly richly from the strong and formative influence of Zoology Professor Lyell Thomas. Ensuing graduate education at Illinois resulted in a Master of Science degree in 1965 and a Medical Doctorate in 1966. Two years of pediatric residency at Illinois followed. Dr. Sarnat then completed two years of military service as a captain in the U.S. Air Force. In medical school Dr. Sarnat's attraction to neuroscience had been kindled in particular by the neuroanatomist, Professor LMH Larramendi. As a result, Dr. Sarnat entered and completed in 1973 three years of training in child and adult neurology at the University of Virginia under the rich clinical stewardship of Professor Fritz Dreifuss. His training was further greatly enriched by a year-long fellowship in neuropathology under Ellsworth C. Alvord and Martin G. Netsky. His training as a developmental neuropathologist has benefited greatly as well from guidance provided by Professors Margaret Norman and Miguel Marin-Padilla.

In 1974, together with Professor Netsky, Professor Sarnat was to publish (as first author) a remarkable full length textbook for Oxford University Press concerning the evolution of the nervous system. The work was quickly established as an authoritative account of exceptional quality concerning the comparative neuroanatomy of vertebrate animals, an analysis that was applied with considerable intelligence in order to propose a theory of the probable evolutionary sequence of the vertebrate nervous system. An expanded and extensively revised second edition (nearly twice as lengthy) was published in 1981. Characteristically well-written and intellectually stimulating, the second edition was greatly enriched by the well-organized incorporation and comparative analysis of wide-ranging venerable and quite recent neurochemical and neuroanatomic observations in order to intelligently establish theories of the evolution of neuromuscular control as a critical element in the evolution of species.

Upon completion of his formal training, Dr.Sarnat entered his academic career as Assistant Professor of Pediatrics and Neurology at St. Louis University (1973-1976). From 1976-1977 he served as Lecturer and Consultant at the University of Western Australia. Associate Professorships in Pediatrics and Neurology were attained at St. Louis University (1977-1978). Associate Professorship in Pathology was added to these titles by the University of Arkansas (1978-1981). He retained that status at the University of University of Calgary 1981-1984) until he was elevated to Professorships (1984-1992). Moving to the University of Washington (1992-2001), he assumed the position of Head, Division of Pediatric Neurology, Professor of Pediatrics and of Neuropathology, and was awarded the Sarkowsky Endowed Professorship in Pediatric Neurology. From 2001-2004 he held Professorships in Neurology and Neuropathology at UCLA. In 2004 he returned to the University of Calgary as Professor of Pediatrics, Pathology, and Neurology until his retirement 2012. Despite retirement, he has greatly benefited Calgary by his commitment to continue to work full-time without salary in research, clinical care, and teaching.

Throughout his remarkable career as a physician and scientist, Dr. Sarnat has applied his characteristic energy, drive, intelligent organization and wide-ranging educational background to an unusually broad spectrum of research questions. Beginning in 1968, Professor Sarnat has published 174 original peer-reviewed papers based on original research. The subjects are numerous. They include the approach to neurological evaluation (5), cardiac and cardiovascular diseases (2), cerebellar pathology (6), cervical cord atrophy (1), comparative neuroanatomy (2), brain cortical dysplasias (2), other developmental dysplasias (5), developmental neurophysiological science – including approach, lab techniques, comparative perspective, theory, and resulting conclusions (81), endocrinopathies (3), enteropathies (10), environmental science (2), epilepsy pathophysiology/ pathogenesis (14), tables of genetic disturbances (9), healing processes in nervous tissues (9), heritable metabolic diseases (8), history of neurology (1), hypoxic-ischemic neural injury (5), and imaging techniques developed or refined (4).

Other subjects studied include inflammatory neural conditions (1), myopathic and neuropathic evolutionary processes and diseases (11), neonatal neurological diseases (3), importance of scientific semantic precision (8), laboratory techniques – especially tissue staining (14), leukodystrophies (3), neurodevelopmental theory (13), neuroembryopathy (8), neuropathic conditions (13), neonatal encephalopathy (8), neoplastic conditions (8), Purkinje cell physiology (3), neurological functional evolution (6), olfaction (2), phylogenetic diseases (1), skull (1), tenotomy (1), synaptogenesis in fetal tissues (10), teratology (1), toxic conditions (2), tumor (2), and vasculopathies (3). Many of the conditions and processes that he and his colleagues have studied relate particularly to fetal and neonatal developmental neuropathology, neurophysiology (in particular epilepsy), immunocytochemistry, and neuroembryology. Professor Sarnat and his group have devoted considerable en ergy and attention to advancing understanding of the neuroembryological bases of both normal and abnormal brain ontogenesis. He has played particular attention to neuroembryological errors responsible for conditions ranging from the development of epileptogenic neurocortical dysplasias to diseases of muscle. To these original investigations can be added the 108 review papers concerning a wide variety of neurological conditions and scientific methods that he and his group have produced.

Remarkably, he has extended his quite productive attention and reasoning to similarly advancing the understanding of the factors responsible for the development of many other neurological disturbances such as congenital myopathies. In this family of diseases he has been long and quite productively engaged in advancing the anatomic and neuroembryologic understanding of the roles that intermediate filament proteins, trophic factors, and myogenic genes play in the failure of normal peripheral neurodevelopmental processes. The quality of these papers is uniformly excellent, their execution is clearly designed not only to answer questions, but also to entrain the thought processes of the reader in order to refine their approach to the problem considered. A particularly excellent example of what is meant by this is provided by the 1976 paper on the clinical grading of neonatal encephalopathy that he and his colleagues have identified and discussed in original full length scientific papers. His meticulous concentration and desire to instill understanding of neurophysiological processes has resulted in remarkable review papers. These review papers (including five papers that summarize the results of a considerable number of experimental observations) consider adenomatous neural tissue transformation (1), the sources of age-related vulnerability to neurodevelopmental disturbances (6), the developmental theory of cerebral and cerebellar dysplasias (2). His group has considered the histochemical changes of denervated muscle, theoretical aspects of fetal and neonatal muscle maturation, innovations in imaging efficacy (10). Various comparative aspects of the pathophysiology and histochemisry are considered in more than 30 papers.

The first of seven single or co-authored books by Professor Sarnat was published in 1974 considering the evolution of the nervous system. The second edition of this work was published in 1981. In 1983 Professor Sarnat published what became a standard work on muscle pathology and histochemistry. In 1992 Professor Sarnat published the important book *Embryology and Clinical Expression*. Professor Sarnat served as co-editor of the 6th and 7th editions of *Menkes' Child Neurology*. In 2015 he served as Co-Editor for *Bluemcke's Surgical Neuropathology of Focal Epilepsies*. To date, Professor Sarnat has published 105 book.

Dr. Sarnat's has balanced an extraordinarily high level of involvement in educational activities of North American child neurology with an exceptionally busy round of local, institutional scientific, clinical and administrative obligations. He participated in the first meeting of the Upper Midwest CNS, the first (Ann Arbor) meeting of the CNS, and was an important figure in the celebrated Keystone meeting of the CNS. He has been interested in enhancing the career roles and opportunities available in the United States and Canada to women, minorities, and foreign-born individuals. Understandably, he is keenly and particularly interested in the quality of CNS scientific educational programs. He has played a particularly important role in enhancing the educational success of programs designed to enrich professional understanding of the classification and approaches to treatment of learning and behavioral disorders and of epilepsy.

It is no wonder that Professor Professor Sarnat has delivered 156 invited lectures or visiting professorships throughout the world from 1974 to the present. He has lectured in 31 countries. In Spanish-speaking countries he lectures in fluent Spanish (he was employed professionally at one time as in interpreter). In French-speaking countries he lectures in French. He is an accomplished oboist. Professor Sarnat collaborated with his late first wife, Margaret in 1976 in the establishment of the valuable and well-known Sarnat scale in order to estimate the prognosis for encephalopathic neonates that have experienced stress as the result of given degrees of acute hypoxic-ischemic changes. The analysis employs historical details such as potentially confounding pathological stresses, the presence of seizures, carefully selected results of bedside examination within the first 24-48 hours of life, duration of acute encephalopathy, and electroencephalography in order to establish with considerable success a likely prognostic estimation for a given infant. It is noteworthy that this particular study and paper was included in 2009 by the Neonatal Society of Britain among the 50 *most influential* papers in neonatology in the preceding 50 years. Among these "most influential papers, the one reporting the Sarnat scale was judge the paper of the *fourth greatest importance* on the list.

Dr. Sarnat has two children by his first marriage. After his first wife, Margaret, passed away in the mid 1990s, Dr. Sarnat met and married the esteemed child neurologist, Laura Flores; the two have collaborated productively through joint appointments in Los Angeles, Seattle and Calgary. Although he officially "retired" in July, 2013 at the age of 74, Dr. Sarnat has continued to work full-time, chiefly continuing his exceptionally productive neurodevelopmental, neuroanatomical, and neuropathological research programs at Alberta Children's Hospital.

Blue Bird Circle Training Director Award

David K. Urion, MD, FAAN

Presented
Friday, October 28

DAVID K. URION, MD, FAAN

PROFILE WRITTEN BY SCOTT POMEROY, MD, PHD AND KIRAN MASKI, MD

David Urion was born in Cincinnati, Ohio and grew up near Chicago where his father worked in public relations and his mother was a high school English teacher. Commitment to education runs deep in his family; his grandmother was a special education teacher for second graders for nearly 50 years. He fondly remembers spending summers with his raucous, extended family in Louisiana, a type of "summer camp" in the bayou that contributed to his deep appreciation for the benefits of gatherings that foster interpersonal connections.

David graduated from Dartmouth College in 1976, having spent a year of his college tenure living on a farm and distinguishing himself as a Rufus Choate Scholar and recipient of the Chase Peace Prize. After graduating from Stanford Medical School in1980, he completed an internship in internal medicine at the Peter Bent Brigham Hospital, then came to Boston Children's Hospital (BCH) in 1981, where he has been since. After a year of internship in Pediatrics, he trained in child neurology in the Longwood Area Neurology Training Program, serving as Chief Resident from 1984-1985. He joined the faculty at BCH and Harvard Medical School in 1985 as Director of the Learning Disabilities/Behavioral Neurology Program, which continues to the present, and from 1998-2008 served as Director of Network Services for the Department of Neurology, organizing the department's presence at the various off-Longwood clinical sites. In 2007, he was appointed as the inaugural Director of Education for the department, overseeing teaching of both GME and CME programs to the present.

David holds the Charles F. Barlow Chair at BCH and is currently an Associate Professor of Neurology at Harvard Medical School. As Director of the Child Neurology and Neurodevelopmental Disabilities Residency Programs for the past six years, David has trained over 30 residents and oversees all aspects of teaching and training within the Department of Neurology at BCH. As the current President of the Professors of Child Neurology, David has been active in shaping education on a national level. His leadership in resident education is further evident by his appointments to the Child Neurology Milestones Committee by the Neurology Residency Review Committee of the Accreditation Council of Graduate Medical Education (ACGME), Graduate Education Subcommittee of the American Academy of Neurology (AAN), and Chair of the Graduate Education Committee of the Professors of Child Neurology. In these roles, David has exercised significant influence nations and core curriculums used by child neurology residencies nationwide. For his commitment to education, David has received a remarkable number of awards including the Teacher of the Year in Child Neurology by vote of the BCH residents in 1997, 2000, 2008, the Harvard Macy Fellowship in Medical education in 2003, Hall Fellow of Concord Academy in 2005, and the David Weiner Award of Boston Children's Hospital in 2007.

David combines his knowledge, experience and creativity to develop innovative teaching approaches and content to child neurology training. He has created a case-based ethics curriculum for trainees, nurses and social workers in which real ethical issues encountered in neurology practice are discussed. He implemented an interwoven core curriculum for trainees that integrates neuroanatomy, physiology, pharmacology with core disease topics. To ensure, all residents can view these popular

lectures despite duty hour restrictions, he developed a "NeuroWiki" where video recordings of lecture content are archived. This year, he has developed a clinical research component into the resident core curriculum that includes teaching of research design and analysis. Lastly, with grant funding from the AAN, David developed a simulation course through the Program to Enhance Relational and Communication Skills (PERCS) for residents to learn management skills for difficult situation such as breaking bad news. Through all his curriculum development processes, David avidly solicits feedback from trainees and faculty to ensure these projects evolve to meet changing needs.

David's expertise in medical education extends internationally. In addition to developing a number of sites for international rotations for BCH neurology trainees, David has cultivated a decade long relationship with the University of Valparaiso Medical School, Chile for a neurology trainee exchange program. This program allows an exchange of child neurology residents annually that promotes education, cultural competence and professional growth. Furthermore, core lectures at BCH are broadcast by video to child neurology residents in Chile bimonthly. David's efforts in developing this international rotation were recognized by the Chilean Society of Child and Adolescent Psychiatry and Neurology (SOPNIA); he was made an honorary member of SOPNIA and given a teaching award by the SOPNIA president for his contributions to Chilean child neurology education last year.

Professional development has been central to David's mission in medical education. Informed by his experiences through the AAN and ACGME, David developed an innovative evaluation system that incorporates the required milestones specified by the ACGME and Neurology Resident Review Committee in an electronic format (platform by Greplytix, Inc.) that can be completed by evaluators easily and regularly. This novel evaluation system allows attendings to provide timely and meaningful information to ensure consistent improvement and encouragement to residents through their rotations. This tool has been a welcome change at the BCH child neurology program and he aims to refine it for all child neurology programs nationwide. More recently, David's work on professional development has extended to address physician burnout at the resident level with focus on development of resiliency skill training.

Of note, David recognizes that medical education requires skill and commitment that needs to be fostered in faculty members to ensure high quality training for residents. In addition to his advisory role to residents, David has created a number of workshops for faculty members on effective teaching and feedback skills. At BCH, David has created a child neurology workgroup that is comprised of fellows and junior faculty interested in medical education and promotes their interests in various areas of neurology education/training. Faculty projects bore out of this workgroup include a quality improvement curriculum, improving awareness and exposure to child neurology early in medical education, developing international rotations for residents, and the development of a feedback toolkit to improve faculty-resident communication. Such mentorship and encouragement of junior faculty ensures continued progress in and passion for medical education within our child neurology training program.

David Urion truly exemplifies what a Child Neurology and Neurodevelopmental Disabilities Residency Program Director should be. He is an excellent teacher, innovator, deep thinker and genuinely kind person constantly striving for improvement in faculty, residents and himself. Despite his busy schedule, he occasionally finds time to enjoy gatherings of his extended family staying in a yurt that he and his wife built on the island of North Haven in the Penobscot Bay of Maine.

Arnold P. Gold Foundation Humanism in Medicine Award

Oscar Papazian, MD

Presented
Friday, October 28

OSCAR PAPAZIAN, MD

PROFILE WRITTEN BY LEONARDO GARCIA, MD

I met Oscar in 1974 at the Third Child Neurology Society (CNS) Meeting in Madison, Wisconsin. Professor Raymond W. M. Chun was the Chairman of the CNS Scientific Selection and Program Planning Committee. We were Pediatric Neurology Residents at the University of Miami/Jackson Memorial Hospital and Columbia Presbyterian Hospital. We had also in common Spanish as our primary language. He is from Cuba and I am from Venezuela. He presented a communication about the first twin occurrence of Miller Fisher Syndrome. I was impressed for the message but even more so when he told me that because patient transportation was not available, he evaluated the patients at home on his spare time until they completed recovery. We become close friends and I have been able to closely observe and recognize his achievements.

My dear friend was born on May 18th, 1942 in Regla, Habana, Cuba. His mother, Celia and his father, Oscar Zohrab were born in Cuba and Turkey from Catalan and Armenian backgrounds. For the last 54 years, he has had the privilege to be married to Mrs. Maria del Carmen Papazian, a brilliant and gentle woman responsible for many of his achievements. They have three daughters, Maria del Carmen, Varsenik and Nevart and five granddaughters, Varsenik, Annik, Sylvia, Clara, and Maria.

Oscar graduated from high school at Escuelas Pias Catholic School, In May 6, 1965, at the end of his fifth year at University of Havana Medical School, with only one course left to complete his degree, and while serving in the capacity of instructor in Neurophysiology, Oscar was expelled from the Unviersity of Havana Medical School from both his student and his faculty position because he was not supporting the communist regime. At that point, he continued his studies through hands-on experience by working under the supervision of Dr. Carlos RamirezCorria, a famous Cuban Neurosurgeon, and Oscar's mentor until he and his family were allowed to move to Madrid, Spain on June 11 1969 as political refugees. He passed his USA medical foreign examination (ECFMG) in 1970. He obtained the degree of Doctor in Medicine of the Madrid Complutense University Medical School in 1971. He spent six months under the supervision of Professor Alberto Ravano Navas, Chief Neurologist, at Professor Vara Lopez Neurosurgical Service at San Carlos University Hospital, Madrid, Spain.

He and his family moved to Miami, Florida, USA in 1971, where he completed the first two years of Pediatric Residence at Variety Children's Hospital (currently Nicklaus Children's Hospital), under Professor Robert B. Lawson, followed by three years of Neurology Residency with Special Competence in Child Neurology at the University of Miami/Jackson Memorial Hospital (UM/JMH) under Professor Peritz Chambers and Professors Stuart B. Brown and Robert F. Cullen, Jr. His mentor, Dr. Robert B. Daroff, introduced him in the field of Myasthenia Gravis.

Humanitarian Achievements

At the end of Oscar's pediatric neurology residency, in 1976, he was contracted by Professor R.F. Cullen, Jr., Director of the Neurology Division, Variety's Children's Hospital (currently Nicklaus Children's Hospital) and joined Drs. R. F. Cullen, Jr. and Danilo Duenas. He was granted his request to open a neurology clinic in order to followup on his staff patients from UM/JMH at Variety's Children's Hospital. He also was granted his request to evaluate, *pro bono*, patients with special needs, such as Cerebral Palsy and Muscular Dystrophies, at his private office. He evaluated the Spanish speaking patients with seizures disorders through the Epilepsy Foundation on a monthly basis and had a bi-monthly Cerebral Palsy Clinic at the Miami Union Cerebral Palsy.

For his humanitarian services, Oscar was recognized by the Muscular Dystrophy Association, the South Florida Epilepsy Foundation, the Miami Union Cerebral Palsy, the Costa Rica Neurodegenerative Disease Association and the Panama Neurodevelopmental Association (NEURODINA), and Miami Children's Hospital

(MCH) (currently Nicklaus Children's Hospital) Medical Staff in acknowledgement of his "Many Years of Dedicated Service to the Children of South Florida".

Medical Achievements

At MCH, he founded and was the director until 2012 of the Clinical Neurophysiology Laboratory, Spasticity Clinic and Movement Disorder Clinic. Oscar also became the director of Neuromuscular Disorders Clinic after Dr. Danilo Duenas retired from MCH. Oscar was among the first in the USA to apply continuing evoked potentials of central and peripheral nervous system during surgery to prevent injuries in children. His clinical areas of interest are Cerebral Palsy, Brachial Palsy, Neuromuscular Disorders, Myasthenia Gravis, Neurodevelopmental disorders and, lately, Executive Function Disorders.

Oscar is Board Certified by the American Board of Pediatrics, American Board of Psychiatry and Neurology with Special Competence in Child Neurology and the American Board of Psychiatry and Neurology with Qualification in Clinical Neurophysiology. He has published the results of his clinical research and expertise at peer review journals in both English and Spanish (24 original articles, 29 reviews articles, one book chapter and two periodical journal chapters).

Because of his medical services, he was recognized and named an Honorary Member of the Venezuelan Pediatric Society, APRONEP from Costa Rica, Ecuadorian Pediatric Society and Spanish Pediatric Neurology Society. He has also received the Miami Children's Hospital Hall of Excellence Award and Santiago Ramón y Cajal Award from the Iberoamerican Academy of Pediatric Neurology (AINP).

Academic Achievements

Oscar was Associate Professor at Affiliated Institution, Department of Neurology, Miller Medical School, University of Miami until 2012. He is Clinical Associate Professor, Department of Pediatrics, Herbert Wertheim College of Medicine, Florida International University. He has trained 11 Spanish speaking pediatric neurologist from different Iberoamerican countries in Clinical Neurophysiology and 24 among the other areas of his expertise.

Leadership Roles

In spite of his busy schedule, Oscar was Editor-in-Chief of *International Pediatrics* for 10 years, and Director of the Child Neurology Postgraduate Course for 30 years, which featured national and international speakers. Every speaker, without exception, wrote a review article of his or her presentations, with references. Each review article was peer reviewed and published in a special supplement of *International Pediatrics*.

Oscar started similar courses in Spanish, Portuguese and/or English, once a year in different countries, including Spain, USA, Argentina, Brazil, Colombia, Mexico, Costa Rica, Panamá, Honduras, Venezuela, Chile and Ecuador. The success was such, that Oscar founded and acted as the first president of the Iberoamerican Academy of Pediatric Neurology (AINP). He was the Local Chairman of the Child Neurology Society's Thirty-Second National Meeting held in Miami Beach, Florida in 2003.

Since 2012, he established his own practice. He is still caring for patients twice a week at his private office and performing neurophysiological procedures once a week at Nicklaus Children's Hospital. He is very active in helping grow the AINP. He dedicates more time than ever to his family. Just over four years ago, following his daughter Maria's footsteps, Oscar proved his respect and love of all living beings by deciding to become a vegan. My friend tells everyone that he has never felt better on his life.

Oscar has demonstrated his skills and abilities in the medical field as a physician, teacher and a leader. But most importantly, he has lived a life of service to help educate professionals and families in order to enhance the life of children with neurological conditions.

As Oscar's friend and colleague, I am grateful to the Child Neurology Society Award Committee for honoring him with the 2016 Arnold P. Gold Foundation Humanism in Medicine Award.

CNS Hower Award

Harvey Singer, MD

Presented
Saturday, October 29

HARVEY SINGER, MD

PROFILE WRITTEN BY ROBERT S. RUST, MD, MA

Harvey Singer attended Oberlin College, majoring in Zoology. He graduated in 1962, followed by medical school at Western Reserve University. He decided to become a pediatrician, spending his internship in pediatrics at the University of Illinois' Research and Educational Hospital. Residency in pediatrics followed at Cleveland Metropolitan where he spent his last year as a Pediatric Teaching Fellow.

Prior to training in neurology, Dr. Singer completed two years of military service as a major in the army medical service at Fort Knox. to train and specialize in child neurology was the result of the influence of two distinguished educators and child neurologists, Robert Eiben and Irwin Schaffer. Irwin Schafer played an important role in arousing Dr. Singer's interest and ability as an epileptologist. Dr. Singer's decision to become both a basic and clinical neuroscientist was the consequence of the influence and example provided to him at various stages of training by several remarkable individuals, basic scientists Schaffer (metabolic diseases), Joseph Coyle PhD (neurometabolic diseases and neurotransmitters), Donald Price MD (neuropathology), Avi Nath MD (neuroimmunology), and Linda Cork PhD.

From 1972-1975, Dr. Singer completed a Pediatric Neurology Fellowship at Johns Hopkins Hospital. He had chosen well, concerning the location in which he would receive his training in child neurology and neuroscience. He was provided with sources not only of information, but the opportunity to enhance his clinical and scientific perspective, his neurological frame of mind, and his clinical and scientific judgment. Such things cannot be programmed into a training experience. What Hopkins provided was a remarkable spectrum of examples of such elements. Particularly strong influences on his development during training and thereafter included John Freeman (epilepsy and spina bifida); Hugo Moser, who added a significant amount of information and enthusiasm to Dr. Singer's existing interest in neurometabolic diseases; David Valle, who did the same thing for genetics; Guy McKhann adding expert insight into neurodegenerative conditions, as did Ernst Niedermeyer and Alan Krumholz in electrophysiology. Mark Mahone was to become an important mentor for neuropsychology and Martha Denkla for behavioral neurology. As the senior child neurology resident, Ian Butler introduced Dr. Singer to clinical aspects and the importance of research concerning what would become Dr. Singer's most important clinical and scientific concentration, Gilles de la Tourette syndrome. Mahlon DeLong introduced Dr. Singer to the basic science of movement disorders. Two contemporary Hopkins trainees in neurology proved influential in a variety of ways: Bernie D'Souza and Gihan Tennekoon.

We are living in an era wherein the mysteries of movement disorders and their treatment are benefitting from scientific enlightenment, an era to which a number of gifted individuals have contributed, few more so than Professor Singer. This "fellowship" of childhood movement disorder specialists includes Mark Hallet, Ann Graybiel, Joseph Jankovic, Stan Fahn, Roger Kurlan, and Jon Mink. The combination of their efforts has resulted in clinical, pathological, physiological, neuroradiological, and neuro-ophthalmological, discoveries with bench science, and other advances in diagnosing and caring for these diseases. Extraordinarily, Professor Singer has contributed 198 original papers. The prompt and enthusiastic intercommunication that these experts share, as is the case with epilepsy and other neurological diseases, has fueled rapid advances in diagnosis and effective treatment of movement disorders. As to basic scientific investigations, contributions to the understanding of these disorders has been advanced in Dr. Singer's group by neuropathologist, Donald Price, neurotransmitter expert, Joseph Coyle, neuroimmunologist, Avi Nath, and Professor Singer himself. Dr. Singer's understanding of various other related disease processes has been enhanced by behavioral neurologists/learning disorder specialists Leon Rosenberg, Andrew Zimmerman, and John Walkup.

It has been greatly to the benefit of the medical students and housestaff of Johns Hopkins – where Professor Singer was spent his entire academic career – that he has devoted his exceptional skills as an educator teaching clinical neurology,

neuropathology, neurophysiology, neuroradiology, neuro-ophthalmology, basic neuroscience, and engaging a number of individuals in clinical and basic science research. From 1979 to the present Professor Singer has held a Consulting Staff appointment at the Kennedy Krieger Institute. For 18 years he held a similar Consulting Staff appointment at Mt. Washington Pediatric Hospital. He advanced to Professorship at Hopkins in 1988. Professor Singer's initial competitive research support was a five-year NIH TIDA grant, awarded to him in 1980. In addition to grants earned in support of the Johns Hopkins training program from 1980 to the present, he and his colleagues have been awarded grants for the study of ADHD (4), apraxias, autism (2), age-related disorders of memory or autism (2), Down syndrome synaptic neurochemistry, gene mapping (3), head trauma, heritable metabolic conditions (2), hydrocephalus, learning disabilities, memory and movement disturbances, neurogenetics and gene mapping, neurotoxicity, neurotransmitters and neuromodulators (2), neuroanatomic and neurophysiologic developmental abnormalities (3), neurotoxity, PANDAS (2), stereotypies (3), tic disorders (4), Gilles de la Tourette syndrome (24), Program Project chromosomal mapping of selected neurological disorders, sleep disturbances, stereotypies (3), tic disorders (4), and toxic effects of psychotropic drugs.

In addition to movement disorders and the other topics noted above, Professor Singer has devoted attention to studies of apraxic conditions, head and other neural trauma, application and innovation of imaging studies, EEG, sleep physiology, neuroembryonic processes, neurological storage diseases. sleep disorders, effects of psychotropic drugs on pregnancy and lactation, hydrocephalus, numerous observations on brain neurotransmitters and neuromodulators, the development of experimental models for various neurological diseases, spinal cord vulnerabilities and injuries, and Hurler syndrome. He and his group have published a broad range of neuropharmacological papers. In 1991 Dr. Singer became Director of the Division of Pediatric Neurology at Hopkins, having previously served as Acting Director. He was to serve in this position for the ensuing 20 years. In 1997 he was awarded the Haller Professorship in Pediatric Neurology, an honor he was to hold for 17 years.

To date, Professor Singer has written and published 232 original full-length papers based upon his research. The subjects have included attention deficit disorder (10), autism (6), autoimmunity (4), dementia (2), developmental neuroscience (12), Down syndrome (2), epilepsy (9), genetic disturbances (2), Gilles de la Tourette syndrome and other tic disorders (128), GM1 gangliosidosis (2), headache (4), head trauma (2) hereditable metabolic diseases (18), Huntington disease (2), hypertonia (2), hypoxic ischemic encephalopathy (2), kinesigenic dyskinesia (2), learning disabilities (2), malignancy (5), movement disorders (5), motor stereotypies (5), neurodegenerative diseases (2) neurodevelopmental processes (4) neuroembryology (2), neuroimaging (6), neuroophthalmology (4), neurophysiology (7) neuropsychiatric disturbances (2), neurotoxicology (2,) neurotransmitter diseases (2), obsessive-compulsivity (6), oculomotor apraxia (2), PANDAS (12), Rett syndrome (2), spinal diseases (3), stereotypies (14), Sydenham chorea (4), tumor/neoplasms (11), and visual system disturbances (5). Eighteen additional subjects each generated a single original paper, including ADHD, ataxia, head trauma, hypertonia, intracranial hemorrhage, kinesigenic dyskinesia, papilloma, learning disability, neusopsychiatric disturbance, neurotoxicity, neurotransmitter diseases, papilloma, porencephaly, psychopathological evaluation, restless legs, sleep disturbances, spine trauma, and stiff skin syndrome.

Dr. Singer has participated in the writing of 80 detailed and memorable chapters, first or sole author of 45. The subjects of these chapters reflect his broad clinical and scientific interests. He was also lead editor or author of three books: *Treatment of Pediatric Neurological Disorders* (2005), and *Movement Disorders of Childhood* (1st Edition 2005, and 2nd Edition 2015). A total of 136 abstracts have been submitted and accepted for presentation at a wide variety of international professional organizations. From 1992 to the present he has delivered 16 major invited or award lectures at universities and hospitals around the world, and one each at the CNS, AAP, and Movement Disorder Society. 98 invitations to speak in the United States, and participated in visiting professorships in New Mexico, Hawaii, Ohio, and Oregon, Quebec and Vermont.

Professor Singer has been a productive and thoughtful member throughout his career of numerous committees at Johns Hopkins. He has had additional important committee obligations with the American Academy of Pediatrics (1), The American Academy of Neurology (4), the Child Neurology Society (7). He has been involved for a considerable time on two scientific committees of the NIH, chairing the committee for the organization of the Tuberous Sclerosis Symposium of 2006. He has held a position of primary importance for the Tourette Syndrome Association for many years where he is on the Medical Advisory Board and four additional committees. He has been a member of the editorial boards of eight important professional journals and a longtime reviewer for ten such professional journals. Throughout his career, Dr. Singer has participated in a long list of local, national, and international professional committees and societies, including President of the Professors of Child Neurology, Chairman of the Child Neurology Match Program Committee (for ten years), and Secretary-Treasuer of the Child Neurology Society.

Professor Singer has been the recipient of many honors and awards for achievements in research and as an exceptional educator. The first of these was the Upjohn Achievement Award for Research that he received in 1970 during his Pediatrics residency. He has held a Teacher Investigator Award from the NIH (1980-85), and he was a recipient of the Frank Ford Teaching Award at Hopkins. In 1990 was accorded special recognition with the Hildegaad Doerenkamp and Gerhard Zbinden Foundation Award for Realistic Animal Protection in Scientific Research. Professor Singer was elected to AOA in 1993. He has been listed in the Best Doctors in America since 1994. He received the Preston Robb Award of Montreal Children's Hospital in 2003, and fulfilled the Stan Emery Visiting Professorship at the University of Vermont in 2010, and the Abby Stoddard Visiting Professorship of Denver Children's Hospital in 2014. In 2013 he was the first individual to receive the Blue Bird Clinic Program Director's Award of the Child Neurology Society. Fittingly, he is the 2016 recipient of the Hower Award of the Child Neurology Society.

CNS Philip R. Dodge Young Investigator Award

Diana X. Bharucha-Goebel, MD, PhD

Presented
Friday, October 28

DIANA X. BHARUCHA-GOEBEL, MD, PHD

PROFILE WRITTEN BY JOHN MYTINGER, MD

Dr. Diana Bharucha-Goebel is the 2016 Philip R. Dodge Young Investigator Awardee. This remarkable clinician scientist has shown a unique combination of passionate patient care and dedication to scientific progress. Dr. Bharucha-Goebel graduated with a B.S. in Biology from Muhlenberg College in 2003. As an undergraduate, she was a Humanities Scholar. She attended medical school at Drexel University College of Medicine, where she received the Arnold P. Gold Foundation Fellowship Award for Humanitarian Research (for a project working with patients with ALS), the Maurice C. Clifford Award for Leadership, and subsequently received her M.D. in 2007. She completed her Child Neurology Residency at the Children's Hospital of Philadelphia in 2012 and received the Barkman Award for her commitment to patient care. With a blooming interest in neuromuscular disorders, she entered a neuromuscular fellowship at the Children's Hospital of Philadelphia and completed this training in 2013.

From 2013 to 2016, Dr. Bharucha-Goebel served as a clinical research fellow at the National Institutes of Health and Children's National Health System. As a clinical research fellow, she received extramural funding for her ongoing work in the form of a T32 Grant. This was a critical period of academic development for Dr. Bharucha-Goebel as she honed her clinical and scientific skills in the field of neuromuscular disorders. She has already published several manuscripts that have provided phenotypic data on several neuromuscular diseases. In a 2013 publication in *Neurology* titled "Severe congenital RYR1-associated myopathy: expanding clinicopathologic and genetic spectrum," Dr. Bharucha-Goebel was the first author in a manuscript that detailed the severe end of the spectrum of patients with ryanodine receptor 1 (RYR1) gene–related myopathy. In this manuscript, mentored by Dr. Carsten Bönnemann, the authors detailed and expanded the clinical, histologic, and genetic heterogeneity associated with this group of patients. In an ongoing mentorship with Dr. Bönnemann, Dr. Bharucha-Goebel was the first author of a 2015 publication in *Neurology* titled, "Intrafamilial variability in GMPPB-associated dystroglycanopathy: broadening of the phenotype". In this work, the authors describe the phenotypic variability in three siblings with this recently described gene mutation.

Dr. Bharucha-Goebel's work in phenotype data analysis positioned her to create and lead a natural history study to develop disease specific outcome measures in giant axonal neuropathy. Indeed, she has developed a special interest in giant axonal neuropathy under the continued mentorship of Dr. Bönnemann. Dr. Bharucha-Goebel's work on this topic is already bearing fruit as she has noted that in a cross sectional analysis of this data, motor and electrophysiologic outcome measures correlate s trongly with disease severity. This natural history study analysis is ongoing and will provide additional insight into the phenotypic presentation of giant axonal neuropathy. Dr. Bharucha-Goebel has presented her work on giant axonal neuropathy at the 2015 Muscular Dystrophy Association Scientific Conference and the 2016 Annual Meeting of the American Society of Gene and Cell Therapy.

Giant axonal neuropathy is also the focus of her Dodge Young Investigator Award. Her mentors include Dr. Bönnemann and Dr. Kanneboyina Nagaraju. Dr. Nagaraju has expanded Dr. Bharucha-Goebel's knowledge of intrathecal gene transfer as well as experience in data analysis including ELISpot and anti-AAV9 neutralizing antibody titers. The goal of this project is to create the first in-human AAV9 mediated intrathecal gene transfer study in giant axonal neuropathy to establish safety of this novel approach. Dr. Bharuch-Goebel's goal is to elucidate the disease pathophysiology and therapeutic approaches for all patients with giant axonal neuropathy, regardless of mutation type. Ultimately, the knowledge garnered from this research may impact our understanding of other neurodegenerative and neuromuscular diseases as well.

Dr. Bharucha-Goebel has proven a worthy recipient of the Philip R. Dodge Young Investigator award. She is now an Assistant Professor at Children's National Health System and the George Washington University School of Medicine and Health Sciences. Her future is bright and she will undoubtedly make valuable contributions to patient care and the field of neuromuscular medicine.

CHILD NEUROLOGY –
The Next Generation has Arrived

AWARD PRESENTATIONS | Friday, October 28

Over 200 residents and more than 30 medical students will be among the 1100+ attendees in Vancouver for the 45th Annual CNS Meeting. Included in these numbers are more than 20 young researchers participating in the NIH-supported Child Neurologist Career Development Program retreat and more than 50 PGY5 residents enrolled in the first annual John M. "Jack" Pellock Resident Seminar on Epilepsy scheduled on the front end of the annual meeting. The four Outstanding Junior Members pictured below, as well as the AAP Travel Awardee and M. Richard Koenigsberger Scholarship recipient are among the 37 residents presenting as first/primary author of a scientific poster. The two D'Souza International Fellowship Awardees will also be presenting posters representing their research and ongoing practice in India and Pakistan.

Review hours for engaging these and other young child neurologists in conversation about their research is scheduled on Thursday (12:30-2:00 PM and 4:30-6:00 PM) and Friday (7:00-8:15 AM).

CNS Outstanding Junior Member Awards

Sonika Agarwal, MD
Baylor College of Medicine

Darius Ebrahimi-Fakhari, MD
Boston Children's Hospital

Juliane Gust, MD, PhD
Seattle Children's Hospital

Manisha Malik, MD
Emory University

AAP Section on Neurology Trainee Travel Award

Sharoon Qaisar, MD
University of Kentucky Medical School

M. Richard Koenigsberger Scholarship

Ann McCarthy, MD
Children's Hospital of Philadelphia

Bernard D'Souza International Fellowship Award

Arushi Gahlot Saini, MD, DM, MNAMS
Chandigarh, India

Bernard D'Souza International Fellowship Award

Tipu Sultan, MD
Lahore, Pakistan

Schedule at a Glance

All meetings/sessions at Vancouver Convention Centre other than those identified as "Pinnacle"

SESSIONS highlighted in Teal are offered for CME credit as part of the CNS Scientific Program. Satellite sessions are accredited through independent CME providers, not the CNS.

SUNDAY, OCTOBER 23, 2016

Start	*End*	*SIG/COMM*	*Room Assigned*
1:00 PM	5:00 PM	CNCDP Executive Board Meeting	Pinnacle-Port of Singapore

MONDAY, OCTOBER 24, 2016

Start	*End*	*SIG/COMM*	*Room Assigned*
7:30 AM	1:00 PM	CNCDP Executive/National Advisory Committee Meeting	Pinnacle-Port of San Francisco/NewYork
1:00 PM	6:00 PM	CNCDP Retreat	Pinnacle-Salon E

TUESDAY, OCTOBER 25, 2016

Start	*End*	*SIG/COMM*	*Room Assigned*
7:00 AM	1:00 PM	CNCDP Retreat	Pinnacle
1:00 PM	5:00 PM	CNCDP Mentoring/Interviews	Pinnacle
2:00 PM	6:15 PM	Registration	West Level 1 Registration Area
2:00 PM	6:00 PM	Speaker Ready	103
6:00 PM	9:00 PM	Pellock Seminar Reception, Dinner & Lecture	109
6:00 PM	8:00 PM	ACNN Reception	Pinnacle

WEDNESDAY, OCTOBER 26, 2016

Start	*End*	*SIG/COMM*	*Room Assigned*
6:00 AM	7:30 PM	Speaker Ready	103
6:00 AM	6:00 PM	Pod/Videocast Room	108
6:00 AM	10:00 PM	Nursing Room	
6:00 AM	6:00 PM	Registration	West Level 1 Registration Area
8:00AM	2:00PM	Program Coordinators of Child Neurology	105-106
8:00 AM	5:00 PM	Pellock Seminar – General Session/Breakout 1	114-115
8:00 AM	5:00 PM	Pellock Seminar – Breakout Session 2	116
8:00 AM	5:00 PM	Pellock Seminar – Breakout Session 3	117
8:00 AM	1:45 PM	CNCDP Study Section	Pinnacle-Port of San Francisco/NewYork
6:45 AM	7:30 AM	Symposium I: NDC Continental Breakfast	West Ballroom A Foyer
7:30 AM	5:00 PM	Symposium I: NDC Neurofibromatosis	West Ballroom A
11:50 AM	12:50 PM	Symposium I: NDC Lunch	West Ballroom B
7:00 AM	8:00 AM	ACNN Continental Breakfast	109-110 Foyer
7:00 AM	5:00 PM	ACNN Meeting	109-110
12:00 PM	1:00 PM	ACNN Lunch and Networking Opportunity	109
8:00 AM	5:00 PM	International Pediatric Stroke IPSS	111-112
12:00 PM	1:30 PM	PCN Board Meeting	201
2:00 PM	5:00 PM	PCN Member Meeting	118-120
4:00 PM	6:00 PM	Neonatal Seizure Study	107
6:00 PM	8:00 PM	Opening/Welcome Reception	2nd Level Foyer/Terrace/Ballroom CD
8:00 PM	9:30 PM	Education SIG	109
8:00 PM	10:00 PM	NeuroNight Cap – Neuro-Humanities; Neurology in Art, Literature and Music	Ballroom B
8:00 PM	10:00 PM	Movement Disorders SIG	118-120

EXHIBITS & POSTER REVIEW

EXHIBIT HALL CD

WEDNESDAY:
6:00 PM-8:00 PM
Welcome Reception
(Exhibit booths open; no posters)

THURSDAY:
11:30 AM-6:00 PM
Exhibits & Posters
Lunch served
12:30-2:00 PM
Wine & Cheese Reception:
4:30-6:00 PM

FRIDAY:
7:00 AM-10:30 AM
Breakfast served
7:00-8:15 AM

THURSDAY, OCTOBER 27, 2016

Start	*End*	*SIG/COMM*	*Room Assigned*
6:00 AM	6:00 PM	Speaker Ready	103
6:00 AM	6:00 PM	Pod/Videocast Room	108
6:00 AM	10:00 PM	Nursing Room	
6:00 AM	6:00 PM	Registration	West Level 1 Registration Area
6:30 AM	7:00 AM	Continental Breakfast	West Ballroom Foyer
7:00 AM	8:15 AM	Breakfast Seminar 1: The Heart of the Matter: Brain Health in Neonates With Congenital Disease	118-120
7:00 AM	8:15 AM	Breakfast Seminar 2: Pediatric Multiple Sclerosis: Updates in Diagnosis and Treatment	West Ballroom B
7:00 AM	8:15 AM	Breakfast Seminar 3: Lawful Physician Aid-in-Dying: Ethical, Legal and Pediatric Perspectives from Oregon to Belgium	121-122
8:00 AM	5:00 PM	Program Coordinators of Child Neurology	105-106
8:15 AM	8:45 AM	CNS AM Break	West Ballroom Foyer
8:45 AM	9:15 AM	CNS Awards (ACNN, Brumback Lifetime Achievement, D'Souza)	West Ballroom A
9:15 AM	12:00 PM	Symposium 2 Presidential Symposium: Evidence Based Treatment of Childhood Migraine	West Ballroom A
11:30 AM	6:00 PM	Exhibits & Posters	West Ballroom CD
12:00 PM	12:30 PM	CNS Business Meeting	West Ballroom A
11:30 AM	6:00 PM	Exhibits & Poster Review	West Ballroom CD
12:30 PM	2:00 PM	Lunch (with Exhibits & Poster Review)	West Ballroom CD
12:00 PM	2:15 PM	ACNN working lunch	109
10:00 AM	2:15 PM	ACNN working meeting	110
12:30 PM	2:00 PM	Committee: Finance	102
12:30 PM	2:00 PM	Committee: Legislative Affairs	107
12:30 PM	2:00 PM	Committee: Practice	111
12:30 PM	2:00 PM	Committee: Maintenance of Certification	112
12:30 PM	2:00 PM	Committee: Ethics	114
12:30 PM	2:00 PM	Committee: Awards	115
12:30 PM	2:00 PM	Committee: International Affairs	116
12:30 PM	2:00 PM	Committee: Membership	117
12:30 PM	2:00 PM	Committee: Research	201
2:00 PM	4:15 PM	Symposium 3: Zika Virus Update for Child Neurologists	West Ballroom A
3:00 PM	6:00 PM	CNF Corporate Advisory Committee (CAB)	118
4:30 PM	6:00 PM	Child Neuro News Break Poster Reveiew (Wine & Cheese Reception)	West Ballroom CD
4:45 PM	6:15 PM	Headache SIG	West Ballroom A
6:00 PM	8:45 PM	SMA Satellite Symposium	109-110
6:00 PM	8:45 PM	Spasticity Satellite Symposium	Ballroom B

FRIDAY, OCTOBER 28, 2016

Start	*End*	*SIG/COMM*	*Room Assigned*
6:00 AM	5:00 PM	Speaker Ready	103
6:00 AM	6:00 PM	Pod/Videocast Room	108
6:00 AM	10:00 PM	Nursing Room	
6:00 AM	6:00 PM	Registration	West Level 1 Registration Area
7:00 AM	10:30 AM	Exhibits & Posters	West Ballroom CD
7:00 AM	8:15 AM	Continental Breakfast	West Ballroom CD
8:30 AM	10:15 AM	Platform Session I	109-110
8:30 AM	10:15 AM	Platform Session II	118-120

Schedule at a Glance

SESSIONS highlighted in Teal are designated for CME credit

10:15 AM	10:30 AM	CNS AM Break	West Ballroom Foyer
10:30 AM	11:00 AM	Awards Presentation (Gold, CNF Scientific, Blue Bird, Outstanding Junior Members	West Ballroom A
11:00 AM	11:30 AM	Dodge Young Investigator Award Lecture	West Ballroom A
11:30 AM	12:15 PM	Bernard Sachs Award Lecture	West Ballroom A
12:00 PM	2:00 PM	ACNN working lunch/SIG meeting	109-110
12:30 PM	2:00 PM	Lunch	Foyer
12:30 PM	2:00 PM	Executive Board Meeting w/ Committee Chairs	201
12:45 PM	2:00 PM	SIG: Traumatic Brain Injury	110
12:30 PM	1:30 PM	SIG: Neurohospitalist	107
12:30 PM	2:00 PM	Sleep SIG	Ballroom B
2:30 PM	4:45 PM	Symposium 4: The Future of Child Neurology: Challenges & Opportunities	West Ballroom A
5:00 PM	6:00 PM	Junior Member Seminar 1: Med Students: Finding a Residency	114
5:00 PM	6:00 PM	Junior Member Seminar 2: Residents: Finding a Fellowship	115
5:00 PM	6:00 PM	Junior Member Seminar 3: Residents & Fellows: Getting your First Job	116
5:00 PM	6:00 PM	Autonomic Disorders SIG	105
5:00 PM	6:30 PM	International Affairs SIG	117
5:00 PM	6:30 PM	Neurogenetics & Neurodevelopmental SIG	Ballroom B
6:15 PM	6:45 PM	Scientific Program Committee	201
6:30 PM	7:00 PM	Legacy Reception	306
7:00 PM	10:00 PM	Closing Gala Reception	West Level 3

SATURDAY, OCTOBER 29, 2016

Start	*End*	*SIG/COMM*	*Room Assigned*
6:30 AM	12:00 PM	Speaker Ready	103
6:30 AM	12:00 PM	Pod/Videocast Room	108
6:00 AM	10:00 PM	Nursing Room	
6:00 AM	12:00 PM	Registration	West Level 1 Registration Area
6:30 AM	7:15 AM	Continental Breakfast	West Ballroom Foyer
7:00 AM	8:15 AM	Breakfast Seminar 4: The Genomics Revolution and Child Neurology	West Ballroom B
7:30 AM	8:15 AM	Breakfast Seminar 5: Active Management of Concussions	109-110
7:30 AM	8:15 AM	Breakfast Seminar 6: Emerging Therapies for Genetic Leuko and Poliodsytrophies	118-120
8:15 AM	8:45 AM	Break	West Ballroom Foyer
8:45 AM	9:30 AM	Hower Award Lecture	West Ballroom A
9:30 AM	12:00 PM	Symposium 5: The New Chapter of Neonatal-Onset Epilepsies	West Ballroom A
1:00 PM	4:00 PM	CNF Symposium 6: Cannabis in Epilepsy: Clinical Science, Parent & Advocacy Prespectives	109/110
1:00 PM	5:00 PM	Biomedical Writing Workshop	111/112

2016 CNS Annual Meeting Passport Program

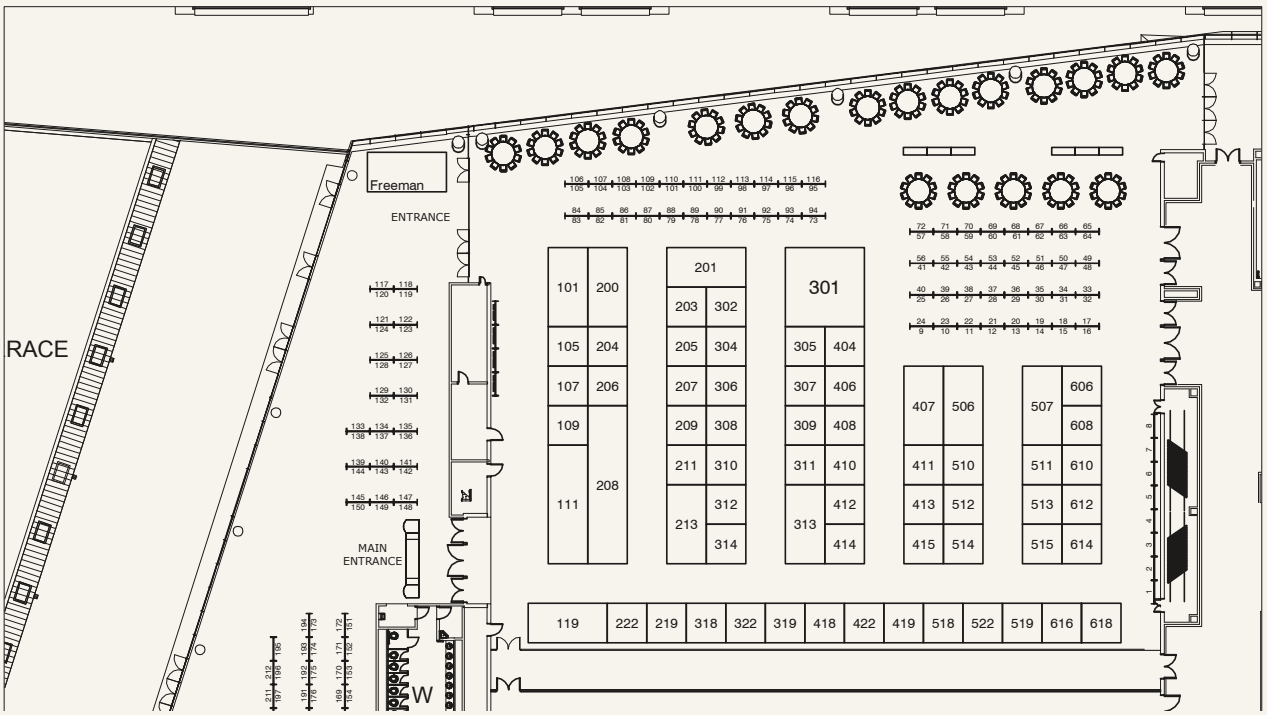
THREE GREAT PRIZES!

PRIZE ONE	PRIZE TWO	PRIZE THREE
2017 CNS Annual Meeting Package Kansas City, MO	**2017 CNS Annual Meeting Package** Kansas City, MO	**Amazon Gift Certificate**
DRAWING 10:45 AM, Friday	**DRAWING** 8:45 AM, Saturday	**DRAWING** 8:45 AM, Saturday
• Two hotel nights in meeting hotel • $500 travel voucher (provided by Child Neurology Foundation) • Registration fee waiver	• Two hotel nights in meeting hotel • $500 travel voucher (provided by Child Neurology Foundation) • Registration fee waiver	• $100 Amazon/Kindle Gift Certificate

HOW IT WORKS

1. Attendees may pick up "passport" at entrance to Exhibit Hall CD
2. Each of the aisles on the exhibit floor is assigned a different color sticker/stamp
3. Attendee's with ONE OR MORE stickers/ stamps from each aisle will drop their completed passport off in the "Passport to KC" slot located in the entrance to Exhibit Hall CD at the end of the day
4. Friday morning winner will receive a 2017 CNS Annual Meeting package, including two free hotel nights, airfare voucher, and registration waiver: estimated value of $1500
5. Two prizes will be awarded Saturday morning.
   - 2017 CNS Annual Meeting package, including two free hotel nights, airfare voucher, and registration waiver: estimated value of $1500
   - $100 Amazon Gift Certificate

Exhibits and Posters



Advocate Children's Hospital Chicago (#305)

Part of Advocate Health Care, Advocate Children's Hospital is the largest network provider of pediatric services in Illinois and among top 10 in US with 2 hospital campuses in the Chicago region. Through a special, holistic approach, ACH combines the country's most respected medical talent with exceptional, compassionate care. ACH has 400+ pediatricians and 275+ pediatric subspecialists.

Akeso Health Sciences, LLC (#422)

MIGRAINES?? MigreLief by Akeso Health Sciences is the most effective best selling multi patented line of natural medicines targeting the needs of all chronic and episodic migraine patients including children over age two. MigreLief formula options include three daily maintenance formulas and one acute as needed formula for all migraine types including menstrual migraines.

Ambry Genetics (#109)

Ambry is a genetics-based healthcare company that is dedicated to open scientific exchange so we can work together to understand all human disease faster and save millions of lives. For more information about Ambry Genetics, visit www.ambrygen.com.

American Academy of Pediatrics, Section on Neurology (#318)

The AAP is an organization with 66,000 pediatrician and medical subspecialists committed to the optimal physical, mental, and social health and well-being for all infants, children, adolescents, and young adults. The Section Executive Committee will give information and answer questions regarding membership, activities and initiatives.

American Board of Psychiatry & Neurology (#404)

The American Board of Psychiatry and Neurology serves the public interest and the professions of psychiatry and neurology by promoting excellence in practice through its certification and maintenance of certification processes.

Arkansas Children's Hospital (#612)

Arkansas Children's is a premier health care system with a 359-bed hospital, staff of 505 and more than 4,000 employees. We offer the most comprehensive pediatric care in the state, including access to a level 1 pediatric trauma center, a world-class neonatal intensive care unit and a thriving cardiothoracic surgery program.

Association of Child Neurology Nurses (#203)

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.

Association for Creatine Deficiencies (#411)

The Association for Creatine Deficiencies (ACD) is the only patient advocacy group devoted to the three known Cerebral Creatine Deficiency Syndromes (CCDS): GAMT, AGAT and CTD. We provide patient, family and public education; advocate for early intervention through newborn screening, and advance medical research for treatments and cures for CCDS.

Banner Health & Banner Children's Specialists (#207)

Banner Children's Specialists (BCS), a multispecialty group within Banner Health, seeking a BC/BE Pediatric Neurologist to join our practice of 5 neurologists and 4 NPs at two sites within the Phoenix area. BCS is part of Banner Health, one of the largest non-profit healthcare systems in the country with 29 hospitals including the University of Arizona academic hospitals in Tucson and Phoenix.

Batten Disease Support and Research Association (#319)

BDSRA is dedicated to funding research for treatments and cures, providing family support services, advancing education, raising awareness, and advocating for legislative action. Founded by parents seeking to build a network around Batten disease, BDSRA is now the largest support and research organization dedicated to Batten disease in North America.

Baylor Genetics (#514)

Baylor Genetics Laboratories offer a broad range of diagnostic genetics tests. We provide state of the art testing including, DNA diagnostics, chromosomal microarray analysis, whole exome sequencing, biochemical genetics, prenatal testing and screening, Mitochondrial disease panels and metabolic testing as well as cancer testing. Please feel free to stop by our booth for more information.

SPONSOR

Biogen (#200)

Through cutting-edge science and medicine, Biogen discovers, develops and delivers worldwide innovative therapies for people living with serious neurological, autoimmune and rare diseases. Founded in 1978, Biogen is one of the world's oldest independent biotechnology companies and patients worldwide benefit from its leading multiple sclerosis and innovative hemophilia therapies.

Biogen

BioMarin Pharmaceutical, Inc. (#506 & 507)

BioMarin develops and commercializes biopharmaceuticals for serious diseases and medical conditions including an innovative experimental treatment for CLN2 disorder. Approved products include enzyme replacement therapies for MPS I, MPS VI and MPS IVA, and approved medications for the treatment of PKU and LEMS. Visit www.BMRN.com to learn more.

Carle Physician Group (#307)

Carle Physician Group, a 400+ physician multispecialty group in Champaign-Urbana, is part of a not-for-profit integrated network of healthcare services that includes Carle Foundation Hospital, a 393-bed Magnet® Level I Trauma Center with Level III perinatal services, and clinics located in 19 communities throughout Illinois.

CEFALY Technology (#312)

CEFALY Technology has developed the Cefaly®, the first FDA-approved External Trigeminal Nerve Stimulator for the prevention of migraines. The company's mission is to research and develop non-invasive and drug-free medical treatments for neurological diseases. CEFALY Technology is leading researches with medical devices for the treatment of coma, epilepsy and fibromyalgia.

SPONSOR

Child Neurology Foundation (#302)

Child Neurology Foundation serves as a collaborative center of education and support for children and caregivers living with neurologic conditions by creating connections between patients and their families, physicians, other healthcare professionals, and industry and advocacy partners through education, advocacy, and support initiatives so that each child may reach his or her full potential. www.childneurologyfoudation.org; twitter: @child_neurology

Child Neurology FOUNDATION
Creating a Community of Support

Children's Health (#608)

As a health care system, the Children's Health mission is to make life better for children, from daily wellness and primary care to specialty visits and critical care, with more than 30 locations and 1,000 physicians committed to this mission.

Children's Healthcare of Atlanta (#219)

One of the largest pediatric healthcare systems in the nation, Children's Healthcare of Atlanta stands out among pediatric providers with 575 licensed beds, three hospitals, and more than 25 neighborhood locations. As a top employer in the U.S., Children's has ranked among *Fortune Magazine*'s "100 best places to work" for 11 consecutive years.

Children's Hospital Colorado (#322)

The Neuroscience Institute at Children's Hospital Colorado is ranked among the best in the nation for neurology and neurosurgery by *U.S. News & World Report*. Our program evaluates and treats infants, children and teens with neurological disorders of the central and peripheral nervous systems. Visit childrenscolorado.org/neuro to learn more.

Children's Mercy Hospital Kansas City (#419)

Children's Mercy Kansas City is an independent, 354-bed pediatric health system, serving half a million patients each year from across the country. Children's Mercy has been ranked by *U.S. News & World Report* as one of "America's Best Children's Hospitals" and received Magnet recognition four times for excellence in nursing services.

CombiMatrix (#206)

CombiMatrix specializes in pre-implantation genetic testing, miscarriage analysis, prenatal and pediatric diagnostics, offering DNA-based testing for the detection of genetic abnormalities beyond what can be identified through traditional methodologies. CombiMatrix is dedicated to providing high-level clinical support for healthcare professionals and help incorporate the results of complex genetic testing into patient-centered medical decision making.

Exhibits and Posters

Cook Children's Health Care Center (#105)

Cook Children's has one of the largest, most technologically advanced pediatric neurosciences programs in the southwestern United States. It's the first independent pediatric hospital to offer a comprehensive movement disorder program that includes deep brain stimulation. It offers a state-of-the art motion lab and a Level 4 epilepsy monitoring unit.

Courtagen Life Sciences, Inc. (#304)

Courtagen Life Sciences, Inc. is a CLIA/CAP certified molecular information company specializing in personalized genetic testing. Using next-generation DNA sequencing, our tests seek to determine the root genetic cause of a neurological or metabolic condition (e.g. autism spectrum disorders, developmental delay, epilepsy and seizure disorders, and mitochondrial disorders).

SPONSOR

Eisai Inc. (#111)

As the U.S. pharmaceutical subsidiary of Tokyo-based Eisai Co., Ltd., we are a fully integrated pharmaceutical business with discovery, clinical, manufacturing and marketing capabilities. Our key areas of commercial focus include oncology and specialty care (Alzheimer's disease, epilepsy and metabolic disorders). To learn more about Eisai Inc., please visit us at www.eisai.com/US.

Electrical Geodesics, Inc. (EGI) (#606)

EGI offers dense array EEG systems featuring the Geodesic Sensor Net for fast application and exceptional comfort, preferred by pediatric populations and care providers. Integrated source estimation software with 7-tissue FDM pediatric head models. EGI also offers products for 10-20 montage EEG, ambulatory EEG, LTM, NICU, EMG/NCV, and EP.

Elsevier, Inc. (#618)

Elsevier is a world-leading provider of information solutions that enhance the performance of science, health, and technology professionals, empowering them to make better decisions, and deliver better care.

Fulgent Diagnostics (#309)

Fulgent Diagnostics (CLIA/CAP) has a broad and unique portfolio of genetic tests, including 18,000+ single gene tests, 190+ preset panels, rearrangement testing, clinical exome/trios, whole exome/trios, whole genome and our All-in-One reflex test. We offer the most comprehensive and affordable portfolios of genetic tests for child neurology.

GeneDx (#515)

GeneDx, an OPKO Health Company, offers sequencing and deletion/duplication testing for inherited cardiac disorders, mitochondrial disorders, neurological disorders, cancer disorders, and other rare genetic disorders. Whole exome sequencing, microarray-based testing, targeted variant testing, and prenatal diagnostic services are also available. Visit www.genedx.com or email GeneDx@GeneDx.com for more information.

Glut1 Deficiency Foundation (#107)

The Glut1 Deficiency Foundation is a volunteer, non-profit family organization dedicated to educating others, increasing awareness of and advocacy for Glut1 Deficiency, creating a forum for sharing support and resources in the G1D community, and supporting and funding researchers as they work for better treatments and an ultimate cure.

SPONSOR

GW Pharmaceuticals (#201)

Founded in 1998, GW's strategy is to be the world leader in the research, development, and commercialization of cannabinoid molecules as novel pharmaceutical therapies. Our lead product candidate, Epidiolex (CBD), is currently in Phase 3 trials in Dravet Syndrome, Lennox Gastaut Syndrome, Infantile Spasms, and Tuberous Sclerosis Complex.

Invitae (#314)

Invitae's mission is to bring genetic information into mainstream medical practice to improve healthcare for everyone. We offer clinically validated, affordable genetic testing for oncology, cardiology, neurology, pediatrics, and more.

SPONSOR

Ipsen Biopharmaceuticals (#101)

Ipsen is a global specialty-driven biotechnological group with total sales exceeding €1.4 billion in 2015. Ipsen sells more than 20 drugs in more than 115 countries, with a direct commercial presence in more than 30 countries. Ipsen's ambition is to become a leader in specialty healthcare solutions for targeted debilitating diseases.

Ironshore Pharmaceuticals & Development, Inc. (#306)

Ironshore Pharmaceuticals & Development, Inc. is developing new drug products leveraging its proprietary DELEXIS® drug delivery platform to optimize the delivery of stimulant medications for the treatment of ADHD. Ironshore seeks to fulfill a significant unmet medical need in the treatment of ADHD – inadequate symptom control during the early morning routine.

Jett Foundation (#222)

Jett Foundation, an advocacy organization dedicated to Duchenne muscular dystrophy, has prepared a Duchenne Clinical Trial Symposium that will provide a review of ongoing clinical trials studying potential treatments for Duchenne. A clinician will provide an overview on the status of the growing research and development in Duchenne.

Le Bonheur Children's Hospital – Memphis, TN (#614)

Le Bonheur's Neuroscience Institute offers advanced care and treatment for children living with neurological conditions. Physicians have access to numerous neuroimaging tools, including Magnetoencephalography, intraoperative MRI and high density EEG, when diagnosing and treating patients. The team includes neurologists, neurosurgeons, clinical neuroscientists, neuroradiologists who treat patients living with neurological conditions such as epilepsy, tuberous sclerosis and more.

Lineagen Inc. (#205)

Lineagen is a provider of advanced genetic diagnostics for individuals with a childhood developmental disorder. Our FirstStepDx PLUS test uses customized whole-genome chromosomal microarray (CMA) technology to diagnose or rule out hundreds of genetic conditions associated with developmental delay, intellectual disability and/or autism spectrum disorder (ASD).

LivaNova (#518)

As pioneers of the VNS (Vagus Nerve Stimulation) Therapy® system, we continue to advance medical device solutions for people affected by treatment-resistant epilepsy. Sharp, responsive and effective – at LivaNova we serve health and improve lives. Day by day. Life by life.

Lumos Pharma (#413)

Lumos Pharma, a clinical stage biopharmaceutical company, is focused on developing novel therapies for patients with unmet medical needs in rare and neglected diseases. Our company's lead compound is in clinical development for Creatine Transporter Deficiency (CTD), a rare, pediatric neurodevelopmental disorder. It has been granted orphan drug status in the US and the EU.

Lundbeck (#208)

Lundbeck, a global pharmaceutical company based in Copenhagen, Denmark, was founded in 1915. As one of the world's leading companies specializing in brain disorders, Lundbeck's key focus is to address disorders such as depression, anxiety, schizophrenia, epilepsy, and Huntington's, Alzheimer's and Parkinson's diseases.

SPONSOR

Mallinckrodt Pharmaceuticals (#119)

Mallinckrodt Pharmaceuticals is a global specialty biopharmaceutical and medical imaging company. The company's Autoimmune and Rare Diseases business includes H.P. Acthar® Gel (repository corticotrophin injection), indicated for use in multiple specialties. To learn more, visit www.Acthar.com.

Mallinckrodt Pharmaceuticals Medical Affairs (#519)

Marathon Pharmaceuticals, LLC (#610)

At Marathon, our passion is improving the lives of patients by delivering new medicines for rare diseases. Marathon is working toward FDA approval of orphan products to treat rare neurological and movement disorders.

Mayo Medical Laboratories (#311)

Mayo Medical Laboratories is a global reference laboratory operating within Mayo Clinic's Department of Laboratory Medicine and Pathology. Mayo Clinic physicians, lab directors, and genetic counselors provide knowledge of, and access to, the latest testing and treatment guidance spanning hundreds of neurological disorders for you and your patients.

Medikidz (#213)

Medikidz is an initiative founded by a group of physicians to explain health and illness to children and adolescents, in a format that is age-appropriate, relevant and engaging. The content is written by physicians, peer reviewed by leading specialists and endorsed by patient associations and professional bodies. Medikidz partners exclusively with pharmaceutical companies and builds platforms based on marketing strategic objectives through comic books, digital apps, events, games and social media.

Mission Health System (#522)

Mission Health, based in Asheville, NC, is a medium sized, not-for-profit health system serving western North Carolina. Mission Hospital, is a 760 bed, level 2 trauma center and is the regional referral center for western North Carolina. Mission has been recognized as a Top Health System by Truven Health Analytics 2012-2015.

MNG Laboratories (#308)

MNG provides expert diagnostics through biochemical testing, metabolic testing and Next Generation Sequencing. Our major focus is to provide rapid sequencing and diagnostics for immediate impact on patient treatment. Our panels are cost effective and comprehensive, particularly for cellular energetics, muscular dystrophies, and epilepsy. Now available is the MNG Exome.

Nationwide Children's Hospital (#407)

The Neurosciences Center at Nationwide Children's is home to leading expertise in pediatric neurological disorders. Unique areas of focus include stroke, intracranial hypertension, spinal muscular atrophy and muscular dystrophy – including groundbreaking clinical and translational research in neuromuscular disorders. Nationwide Children's is ranked in the top 10 for NIH funding among free-standing children's hospitals.

Novartis (#414)

Novartis Oncology is a global leader in improving outcomes for patients. We strive to transform cancer care through distinctive scientific and clinical strategies focused on developing targeted, immunooncology and combination therapies to create more effective options for patients. For more information, please visit www.novartisoncology.com.

Pairnomix (#510)

Pairnomix is a genetic research company, formed to empower physicians and patients who want to know more about rare genetic mutations and new uses for drugs that could be prescribed today.

Providence Health & Services (#511)

Providence is affiliated with Swedish Health Services, Pacific Medical Centers and Kadlec, expanding each organization's ability to carry out its individual mission. The combined scope of services includes 35 hospitals and more than 600 medical clinics in diverse communities in Alaska, California, Montana, Oregon, and Washington.

Exhibits and Posters

Recordati Rare Diseases (#418)

Recordati Rare Diseases is a biopharmaceutical company committed to providing urgently needed therapies to people living with rare diseases in the US. We strive to reduce the impact of these devastating diseases and restore health. Our experienced team works side-by-side with rare disease communities to increase awareness, improve diagnosis, and ensure access to effective treatments. For more information, please visit www.recordatirarediseases.com.

Retrophin (#616)

Retrophin is a biopharmaceutical company dedicated to delivering life-changing therapies to people living with rare diseases who have few, if any, treatment options.

RosmanSearch, Inc. (#412)

RosmanSearch is a targeted physician recruitment firm that serves the needs of the neurosurgical and neurological communities. Our mission is to place quality physicians with quality practices, academic departments and hospitals nationwide. We are the only search firm in the country with dedicated teams specializing solely in neurosurgery and neurology.

SPONSOR

Sarepta Therapeutics (#301)

Sarepta Therapeutics is a biopharmaceutical company focused on developing innovative RNA-targeted therapeutics. Harnessing the power of cutting-edge technology, our rapidly advancing clinical programs, including our exon-skipping platform for Duchenne muscular dystrophy, position us on the threshold of realizing the potential of our proprietary RNA-based technology.

SimulConsult (#211)

SimulConsult provides decision support to generate differential diagnoses; "Personalized Panels" – evidence-based lists of the most useful genes to test for an individual patient based on their findings; "Genome-Phenome Analysis" for interpretation of lab results in the clinical context; and "Prognosis Tables" to help patients understand their inherited disorder.

The Sturge-Weber Foundation (#408)

The Sturge-Weber Foundation improves the quality of life and care for people with Sturge-Weber through awareness, education and research. The program is supported with 24 Centers of Excellence, research fellowships and an International Research Network as well as a patient network and support.

Texas Children's Hospital (#204)

Ranked #2 in Neurology and Neurosurgery by U.S.News & World Report in 2016, the Neuroscience Center at Texas Children's Hospital, along with the Texas Children's Jan and Dan Duncan Neurological Research Institute, is a leader in the research, treatment and surgical intervention for the full continuum of neurological conditions.

Tourette Association of America (#406)

Founded in 1972, 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. Free Tourette resources are available at the booth.

Tuberous Sclerosis Alliance (#209)

The Tuberous Sclerosis Alliance is a non-profit organization dedicated to finding a cure for tuberous sclerosis complex (TSC) while improving the lives of those affected. TSC is a rare genetic disorder that causes tumors to form in vital organs and the leading genetic cause of epilepsy and autism.

Ultragenyx Pharmaceutical (#410)

Ultragenyx is a clinical-stage biopharmaceutical company committed to bringing to market novel products for the treatment of rare and ultra-rare diseases, with a focus on serious, debilitating genetic diseases. For more information, please visit www.ultragenyx.com

University of Chicago Genetic Services (#512)

The University of Chicago Genetic Services Laboratories offers cutting-edge CLIA- and CAP-certified clinical DNA diagnostic services. Our molecular diagnostic laboratory test menu includes whole exome sequencing, as well as testing for a wide variety of neurological disorders including ataxia, epilepsy, intellectual disability, neuromuscular disorders, and brain malformations.

Upsher-Smith Laboratories, Inc. (#313 & #415)

Upsher-Smith Laboratories, Inc., founded in 1919, is a growing, fully integrated pharmaceutical company dedicated to its mission of delivering high-value, high-quality therapies and solutions which measurably improve individuals' lives. Upsher-Smith has a particular focus on developing therapies for people living with central nervous system (CNS) conditions, such as seizure disorders. For more information, visit www.upsher-smith.com.

Valley Children's Healthcare (#513)

One of the largest pediatric healthcare networks in the nation, Valley Children's Healthcare provides Central California's only high-quality, comprehensive care exclusively for children, from before birth to young adulthood. Our nonprofit network offers specialized medical and surgical services through our 358-bed children's hospital, specialty care centers and primary care services.

Mallinckrodt welcomes you to Vancouver

The Child Neurology Society (CNS) is dedicated to improving the healthcare and well-being of children with neurologic problems. Nowhere will this be more evident than at the CNS 45th Annual Meeting.

Mallinckrodt matches your dedication with a commitment to treating a rare pediatric neurological disorder. For nearly 150 years, Mallinckrodt has made complex scientific problems manageable, developing valuable treatments for patients who need them.

Visit **booth 119*** to see how Mallinckrodt demonstrates our dedication to patients with a rare neurologic disease.

*For US healthcare providers only.

Mallinckrodt Pharmaceuticals

CONNECTING WITH YOUR FUTURE

Personnel Registry

CNS PERSONNEL REGISTRY

ALABAMA

Child Neurologist Needed in Huntsville, AL; Forbes Top 10 Smartest City in the World

Huntsville Hospital for Women & Children is seeking a BC/BE Child Neurologist. Very competitive salary package and our cost of living is 10-20% less expensive than the national average.

This is a great opportunity to practice in a growing area that enjoys a strong local economy. Practice mainly sees seizures, headaches, developmental delays, CP and muscle issues. Baclofen pump, Botox, EEG, EMG/NCV studies, EMU monitoring. 50-60 referrals a week, 15-18 patients daily, 7 on/7off call schedule, however, call is very light, you may only receive 4-5 calls during your entire week of being on call. Very competitive compensation package with base salary and worked RVUs/productivity and quality incentives.

Huntsville Hospital for Women and Children is a stand-alone facility dedicated to caring for women, infants, children, and adolescents. The hospital offers the region's most comprehensive and experienced maternal and child health programs. It was established in 2002 and is rated in the Top 50 Pediatric Programs in the nation. Average of 5,000 births a year and 16,000 admissions annually. Huntsville Hospital for Women & Children is the only one of its kind in the region with a 16-bed Pediatric ER, 11 bed PICU, 45 bed Level III NICU, 40-bed Pediatric Inpatient facility treating infants to 18 years of age and 1 of 6 St. Jude Children's Research Hospital affiliate clinics for Pediatric Hematology/Oncology.

Huntsville, with a population of 386,661 in the metro area, is a high-tech, family oriented, multi cultural community with excellent schools, dining and entertainment. It is nestled at the foothills of the Appalachian Mountains with an abundance of activities to do inside or out.

Huntsville is situated in the fastest growing major metropolitan area in Alabama, and with the highest per capita income in the southeast, Huntsville is the best place to live, learn and work. We are a community on the move with rich values and traditions while progressing with new ideas, exciting technologies and creative talents.

- Huntsville: #1 BEST CITY by Kiplinger's *Personal Finance* Magazine
- Huntsville named one of the Top 50 Best Places to Raise Children in the U.S. by Business Week.
- The City of Huntsville received Standard & Poor's highest possible AAA bond rating for strength of the local economy
- Huntsville named in Top Ten Smartest Cities in the World by *Forbes*

If you are a physician and are interested OR you know someone who might be interested (referrals are greatly appreciated) in hearing more information about our excellent opportunity, please contact Suzanne LeCroix at 256/265-9639 or suzanne.lecroix@hhsys.org

CNS PERSONNEL REGISTRY

ARIZONA

PEDIATRIC NEUROSURGEON

You deserve the best by practicing with one of the best!

Banner Health and Cardon Children's Medical Center, Arizona

Banner Health, Banner Children's Specialists and Cardon Children's Medical Center is seeking an Employed Board Certified/Board Eligible Pediatric Neurosurgeon to join a growing program in the East Valley of Phoenix, AZ. Cardon Children's Medical Center is a comprehensive children's hospital that serves greater Phoenix, the state of Arizona and beyond! The Banner Children's Subspecialty Group located on the same campus as Cardon Children's Medical Center supports a growing population of state-wide referrals.

Join our collegial team of two Pediatric Neurosurgeons, one Nurse Practitioner and full support staff. Pediatric Neurosurgery training/experience is required, qualified candidate must be Board Certified/ Board Eligible. Services provided include inpatient, outpatient surgical care for acute and chronic neurosurgical conditions. Work schedule is Monday through Friday with shared call of 1:4 Additional income opportunities available with optional added call. Our state-of-the-art facility features 206 beds, specially trained nurses and doctors and family-centered care.

Other benefits offered at our children's medical center include:

- An expanded Neonatal Intensive Care Unit from 65 beds to 86 beds
- Six pediatric operating rooms featuring 25 private, child-friendly pre- and post-op areas
- An expanded Pediatric Emergency Department, increasing from 15 to 26 beds
- Outpatient Treatment Center includes 16 beds that can serve as overflow for Emergency Department during peak evening hours
- Dedicated Pediatric Radiology Department
- Dedicated Pediatric Rehabilitation unit
- Dedicated pediatric cancer and blood disorder unit
- Dedicated Pediatric Intensive Care Unit, with shelled space for future PICU expansion

Benefits for families include:

- Separate treatment rooms on every floor
- Private patient rooms with ample space for patient and family members, including private baths
- Family lounges, dietary stations and laundry rooms for family use
- Interactive play/family spaces
- Unique interior design that emulates nature scenes and individual houses at the entrance to every room
- Forever Young Zone, a multipurpose auditorium/performance space, designed by Steve Youngs Forever Young Foundation

Banner Health offers excellent compensation plus incentives, relocation and recruitment incentives, paid malpractice, Paid CME plus allowance and outstanding benefits that provide security for you and your family.

Please submit your CV to:
doctors@bannerhealth.com

For questions, please call Pam Disney, Sourcing strategist: 602/747-4397.

Visit our website at:
www.bannerhealth.com

As an equal opportunity and affirmative action employer, Banner Heath recognizes the power of a diverse community and encourages applications from individuals with varied experiences and backgrounds. Banner Health is an EEO/AA - M/W/D/V Employer.

CNS PERSONNEL REGISTRY

CALIFORNIA

CHILD NEUROLOGIST

Loma Linda University Faculty Medical Group and the Division of Pediatric Neurology are seeking a full-time academic child neurologist at the instructor, assistant, or associate professor level who is BE/BC in Neurology with Special Qualification in Child Neurology.

The Division consists of 9 pediatric neurologists (2 of whom are pediatric epileptologists), 1 developmental pediatric specialist, 1 chronic pain/headache specialist and 4 neuropsychologists. We are part of the Department of Pediatrics which has approximately 140 attending physicians and 100 pediatric residents. Our Child Neurology Residency accepts 1 resident per year. There is a strong Adult Neurology department with 3 residents per year who also rotate through child neurology.

The LLU Children's Hospital has approximately 300 beds. This includes a 16 bed Emergency Department, 25 bed Pediatric ICU, 24 bed Intermediate Care Unit, 90 bed Neonatal ICU, and 140 additional beds in 5 pediatric units (general and subspecialty pediatric medical and subspecialty patients). There are approximately 16,000 pediatric medical and surgical hospital admissions per year to our state of the art LLU Children's Hospital and approximately 4000 patients are direct admissions to or are transferred to the Child Neurology ward service. Approximately 1,000 consultations are performed annually. The outpatient child neurology clinic sees approximately 15,000 children annually and consists of clinics in general child neurology as well as multiple subspecialties (e.g., Neuromuscular Diseases, Epilepsy, TBI, Demyelinating Diseases, Movement Disorders, Tuberous Sclerosis, Neurofibromatosis, etc.)

We are seeking a child neurologist with excellent skills in general child neurology and clinical patient care to join our expanding program. Interest in developing a subspecialty clinic and skills in autism, headache, pediatric sleep medicine, and other related areas is desired. Shared responsibilities with the other members of the Division of Child Neurology include medical student and resident teaching, attending on the child neurology inpatient service and in having an active out-patient clinical practice. Interest in academic research is also encouraged and supported. Requirements include an MD or equivalent degree, eligibility for medical licensure in the State of California, and certification (or eligibility for certification) by the American Board of Psychiatry and Neurology in Neurology with Special Qualification in Child Neurology.

Loma Linda is located in Southern California, approximately 70 miles east of Los Angeles and 45 miles from Palm Springs. This position will remain open until filled. Loma Linda is an Equal Opportunity/Affirmative Action Employer. We offer a competitive compensation and benefits package including paid malpractice and a generous relocation package. We will consider an H1-B candidate, providing the candidate is not in their 6th year of the visa.

If interested, please visit our job board to apply: http://www.socaldocs.com/your-opportunities/ or contact Dr. Stephen Ashwal, Chief, Division of Pediatric Neurology, Department of Pediatrics, Loma Linda University School of Medicine, Loma Linda, CA 92350; Email: sashwal@llu.edu

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Pediatric Neurologist – Epileptologist

We're seeking BC/BE Child Neurologists as well as specialists with additional fellowship training in Clinical Neurophysiology for the growing team at Valley Children's Healthcare (formerly Children's Hospital Central California), one of the nation's 10 largest free-standing children's hospitals. Situated in the center of one of California's most stunning geographic areas, Valley Children's treats more inpatient cases than any pediatric hospital north of San Diego, making it the second largest children's hospital in the state.

These are exciting opportunities to join a team of amazing physicians who provide incredible care in a warm, welcoming environment while enjoying interesting, challenging cases. At Valley Children's main campus, you'll love working at a stunning, state-of-the-art, 356-bed facility that sits on a 50-acre campus on the idyllic bluffs of the San Joaquin River, with the Sierra Nevada Mountains as your backdrop. A Magnet Nursing facility, Valley Children's offers an excellent support staff along with a busy, growing practice that offers excellent compensation package.

Additional practice opportunities are available at the specialty care centers in Modesto, located just over 90 miles northwest of the main hospital and 90 miles from San Francisco or in Bakersfield, less than two hours from Los Angeles.

Situated very near the center of the state, you'll enjoy an exceptional quality of life. Residents have the unparalleled opportunity to live within one to three hours of the magnificent Pacific coast, the mountains and the San Francisco, San Jose and Los Angeles metropolitan areas. Sonoma and Napa counties and Lake Tahoe all are within a four-drive. Outdoor enthusiasts will enjoy living in the only city in the nation to have not just one, but three National Parks (Yosemite, King' Canyon and Sequoia) right in your own backyard. Whether you prefer the snow, the sun or the sand, it's all within your reach. And with so much varied geography, you'll also find hiking and biking trails, kayaking, fishing, local wineries, farm stands and festivals, gourmet cuisine, and that's only the tip of the iceberg. Another perk: The area is very

CALIFORNIA continued

affordable, and it boasts award-winning schools, making it the perfect choice for families.

If you're looking for an opportunity that offers a fantastic lifestyle both inside and outside of work, this is it. For complete details and consideration, please contact Glenda Smith, Principal, Pediatric Search Partners via email at glenda@pediatricsearchpartners.com or direct at 877/440-3832.

Exceptional Pediatric Neurology/ Epilepsy Opening on the Pacific Coast

Ready for a quality of life so fabulous, you'll pinch yourself?

The CHOC Children's Neuroscience Institute is looking for Board Certified/ Board Eligible Pediatric Neurologists and candidates with additional fellowship training in Clinical Neurophysiology to join their highly respected, growing team. This opportunity provides an unbeatable chance to deliver advanced treatment to patients and participate in clinical research in a world-class locale.

Ranked among the Best Children's Hospitals for Neurology and Neurosurgery by *U.S. News & World Report*, the CHOC Children's Neuroscience Institute are experts in evaluating, treating and managing all forms of neurological conditions and offers specialty programs that set the Neuroscience Institute apart. CHOC is the only children's hospital to be named a Level 4 epilepsy center by the National Association of Epilepsy Centers (NAEC) and the Neurodiagnostics Laboratory has a five-year accreditation the highest possibility the Laboratory Accreditation Board of the American Board of Registered Electroencephalographic and Evoked Potential Technologists (ABRET). CHOC Children's is associated with the University of California Irvine School of Medicine, is among only 7 percent of hospitals awarded Magnet designation for nursing excellence, and has been recognized by Press Ganey for excellence in physician engagement with families.

One of California's most sought-after areas, Orange County is situated between San Diego and Los Angeles, and includes 45 miles of gorgeous coastline. Its home to such iconic beach communities as Newport Beach, Laguna Beach, Huntington Beach and Dana Point. In your off-hours, surf the waves, go paddleboarding or hit the golf course. Stroll the piers and enjoy world-class shopping and dining. Catch some professional sports. And Disneyland and Knotts Berry Farm are in your backyard. The California lifestyle doesn't get any better than this. And families will appreciate the areas top-notch schools and friendly and safe neighborhoods. You're less than an hours drive from Los Angeles, less than 90 minutes from San Diego and about two and a half hours from Santa Barbara.

This is a truly exceptional opportunity to love where you work and where you live. For complete details and confidential consideration, please contact Glenda Smith, Principal, Pediatric Search Partners, via email at glenda@pediatricsearchpartners.com or by phone 877/440-3832.

Pediatric Epileptologist/ Director of EEG

Pediatric multi-subspecialty group in San Diego is seeking an epilepsy-qualified pediatric neurologist for directorship of our EEG program. The EEG program serves Sharp Memorial Hospital and Sharp Mary Birch Hospital for Women and Newborns and performs a large number of inpatient and outpatient EEGs on all ages. The EEG lab currently has two adult epileptologists and one pediatric neurologist on staff. Sharp Mary Birch has the highest number of deliveries in California and the level III NICU is the largest in San Diego County. Our Neuro-Intensive Care for Newborns (NICN) program is five years old and conducts a large volume of video EEGs. The successful candidate is expected to share in coverage of the NICN service, so interest in neonatal neurology is strongly desired. Sharp Mary Birch has an excellent research infrastructure for candidates with research interests. The Neonatal Research Institute is a well-funded multidisciplinary team of neonatologists, neurology, study coordinators and research assistants. The institution supports flexible clinical time and work-life balance, with an average of one nighttime page a month. Pay is extremely competitive with paid malpractice and an attractive benefits package.

Requirements include an MD, DO, or foreign equivalent degree; eligibility for medical licensure in the State of California; and board eligibility or certification by the ABPN in Neurology with Special Qualification in Child Neurology. The applicant should have completed subspecialty training in epilepsy and be certified in clinical neurophysiology (ABPN or ABCN or equivalent). If interested, please contact Dr. MJ Harbert, Director of Fetal and Neonatal Neurology, at mj.harbert@sharp.com

CNS PERSONNEL REGISTRY

COLORADO

Children's Hospital Colorado Director & Faculty Openings Headache Medicine

On behalf of the Department of Pediatrics at the University of Colorado School of Medicine, The Section of Child Neurology, and Children's Hospital Colorado, MillicanSolutions, LLC is pleased to inform you of the inception of a national search for candidates for the recently created openings in Child Neurology with special interest in Headache Medicine.

The Department of Pediatrics is seeking board-certified or board-eligible Pediatric Neurologists at the rank of Assistant, Associate or Full Professor. In addition to the need for an additional junior faculty member, the opportunity also exists for qualified individuals who exemplify leadership capabilities as Director of the Pediatric Headache Program. The successful candidate will be expected to lead Headache Program development and growth in both the clinical and research areas.

The Section provides multidisciplinary care including pharmacological, psychological, nutritional and complementary medicine approaches, is active in clinical research and quality improvement, and actively partners with adult headache specialists at the University of Colorado Hospital for fellowship training and transition clinics. The Section of Child Neurology is an interdepartmental program in

Pediatrics and Neurology of over 45-faculty members. It has a strong tradition of exceptional clinical services at Children's Hospital Colorado main campus and network of care sites, excellence in basic and clinical research, and a highly respected residency program. The Section has a strong relationship with the Department of Neurology and other programs in Neuroscience at the University of Colorado Anschutz Medical Campus. The Department of Pediatrics at the University of Colorado is a leader in Pediatric research and has extensive programs in education, basic science, clinical care, outcomes, and translational research.

Position Responsibilities: Outpatient and some inpatient care of children with headache and other neurological disorders. Fellowship and/or other specialty training/ experience and board certification/ eligibility in Headache Medicine and expertise in administration of nerve blocks and botox for therapeutic treatment of headache are highly desired. Competitive start-up packages including protected time for academic development and productivity will be provided. Must have demonstrated commitment to clinical program development, education and research.

Required Qualifications: MD degree and Board Certification/ Eligibility in Neurology with Special Competence in Child Neurology and Certification/ Eligibility for certification in Headache Medicine.

About Children's Hospital Colorado (CHCO): Affiliated with the University of Colorado School of Medicine, CHCO is consistently ranked by *U.S. News & World Report* as one of the top ten best children's hospitals in the country. The free standing hospital is licensed to operate 314-beds and annually performs on average over 17,000 surgeries, logs over 400,000 outpatient visits, and delivers over 81,000 days of inpatient care. CHCO is home to nationally and internationally recognized clinical and research programs with the Department of Pediatrics consistently ranking as a top academic department for pediatric research funding from the NIH. The Anschutz Medical Campus includes over 5-million square feet of research, educational, and clinical space on 227 acres.

We would appreciate the opportunity to confidentially discuss these positions with you and share in greater detail why we feel them to be among the top positions available nationally. Please contact Marcel Barbey at 682/223-5779 or via email at: marcel@MillicanSolutions.com for more information. All inquiries will remain confidential without your prior approval. The University of Colorado School of Medicine is an EEO/AA Employer M/F/D/V.

Child Neurology – Faculty Position

On behalf of the Division of Pediatric Neurology at the University Of Colorado School Of Medicine and the Children's Hospital of Colorado, MillicanSolutions, the national leader in pediatric physician and executive search, is pleased to inform you of the inception of a national search for candidates for the recently created opening at its Colorado Springs practice site.

This established practice is in need of an additional faculty member that will be based in Colorado Springs full time and will be provided the resources necessary for ones professional development to serve the neurology needs of children throughout southern Colorado and Northern New Mexico. Both the University of Colorado School of Medicine and Children's Hospital Colorado stand committed to the continued growth of a Pediatric Neurology program that combines the best of community practice with academic partnerships including but not limited to research, grand rounds, conferences, and mentoring.

Nestled at the base of beautiful Pikes Peak, Colorado Springs is a progressive community of more than 500,000 people that enjoy immediate access to the Rocky Mountains and a wide variety of cultural and educational opportunities. The immediate access to internationally renowned skiing, white water rafting, biking and hiking trails at the Garden of the Gods, world class facilities at the United States Olympic Training Center, close proximity to Denver, combined with affordable cost of living and quality schools, provides an exceptional quality of life.

Other highlights:

- For qualified applicants, additional leadership role available as Center Medical Director of 32-physician specialty group that will provide strategic and operational medical leadership and direction for ambulatory operations. Scope of responsibility will include practice management, operational efficiency, business development, and delivery of outstanding faculty, patient and referring provider service.
- As part of long-term commitment to providing pediatric care to the Colorado Springs community, Childrens Hospital Colorado is moving forward with the building of a new childrens hospital in north Colorado Springs.
- The 280,000 square-foot facility, will include an emergency department, up to 100 inpatient pediatric beds, NICU, pediatric intensive care unit, and operating rooms.
- Clinic space located in state-of-the-art, 50,000 square foot outpatient specialty care center with office views of Pikes Peak
- Opportunity to see a wide variety of patients and clinical disorders with particular sub-specialty interests needed in Neuromuscular, Epilepsy, and Headache.

We would appreciate the opportunity to confidentially discuss this opportunity with you and share in greater detail why we feel it to be among the top positions available nationally. Please contact Marcel Barbey at 817/707-9034 or via email at: marcel@millicansolutions.com for more information. All inquiries will remain confidential without your prior approval.

CNS PERSONNEL REGISTRY

CONNECTICUT

PEDIATRIC EPILEPTOLOGIST

THE DEPARTMENT OF PEDIATRICS
SECTION OF PEDIATRIC NEUROLOGY
AT YALE UNIVERSITY SCHOOL OF MEDICINE

Is seeking an outstanding PEDIATRIC EPILEPTOLOGIST to direct its pediatric epilepsy program. The chief of pediatric epilepsy is expected to maintain a research program and will lead efforts to expand pediatric, neonatal, and ICU video/ EEG monitoring; the ketogenic diet and VNS programs; and the epilepsy surgery program. He (she) will build new clinical and research programs in conjunction with Pediatric Neurology and with the

CONNECTICUT continued

level IV Yale Comprehensive Epilepsy Center, co-directed by Drs. Lawrence Hirsch (neurology) and Dennis Spencer (neurosurgery). Extensive infrastructure for research is provided. Outstanding recommendations and evidence of research productivity, clinical excellence, and leadership are required.

The chief of pediatric epilepsy will lead an existing team of 3 fellowship-trained and BC/BE pediatric epileptologists and will collaborate with 10+ adult epileptologists, 3 neuropsychologists (1 pediatric), and 2 epilepsy neurosurgeons. The pediatric epilepsy program has dedicated nursing, nutrition and social work support. The Section of Pediatric Neurology has 12 faculty members with leading programs and multidisciplinary clinics and has repeatedly been ranked by *US News and World Report.*

The fulltime academic appointment will be at the Associate Professor or Professor level in the Yale School of Medicine, depending on the applicants qualifications. Requirements include an MD, DO, or foreign equivalent degree; eligibility for medical licensure in the State of Connecticut; and board eligibility or certification by the American Board of Psychiatry and Neurology in Neurology with Special Qualification in Child Neurology. The applicant should have completed sub-specialty training in epilepsy and be certified in clinical neurophysiology (ABPN or ABCN or equivalent). A generous benefits package includes tuition remission for qualified dependents. In order to be eligible for university sponsorship for an H1B visa, graduates of foreign (non-US.) medical schools must show successful completion of all three steps of the U.S. Medical Licensing Exam (USMLE), or equivalent as determined by the Secretary of Health and Human Services.

Yale University is an equal opportunity, affirmative action employer. Women, minorities, persons with disabilities and protected veterans are encouraged to apply. The position will remain open until filled. July 19, 2016

CONTACT VIA EMAIL: Applicants should send a letter of interest, a list of references, and their curriculum vitae to: Nigel S. Bamford, MD, Section Chief of Pediatric Neurology, Department of Pediatrics, PO Box 208064, New Haven CT 06520-8064. email: nigel.bamford@yale.edu

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PEDIATRIC NEUROLOGIST

THE DEPARTMENT OF PEDIATRICS
SECTION OF PEDIATRIC NEUROLOGY
AT YALE UNIVERSITY SCHOOL OF MEDICINE

Is seeking an outstanding PEDIATRIC NEUROLOGIST to join an expanding program in the Section of Pediatric Neurology. The pediatric neurologist will develop a clinical and research program in metabolic disease, neurogenetics, or other subspecialty. The Section of Pediatric Neurology has 12 faculty members with leading programs and multidisciplinary clinics. The Pediatric Neurology service has repeatedly been ranked by US News and World Report.

The fulltime academic appointment will be at the Assistant Professor, Associate Professor, or Professor level in the Yale School of Medicine, depending on the applicant's qualifications. Requirements include an MD, DO, or foreign equivalent degree; eligibility for medical licensure in the State of Connecticut; and board eligibility or certification by the American Board of Psychiatry and Neurology in Neurology with Special Qualification in Child Neurology. A generous benefits package includes tuition remission for qualified dependents. In order to be eligible for university sponsorship for an H1B visa, graduates of foreign (non-US.) medical schools must show successful completion of all three steps of the U.S. Medical Licensing Exam (USMLE), or equivalent as determined by the Secretary of Health and Human Services.

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PEDIATRIC NEUROLOGY PHYSICIAN – SCIENTISTS

THE DEPARTMENT OF PEDIATRICS
SECTION OF PEDIATRIC NEUROLOGY

AT YALE UNIVERSITY SCHOOL OF MEDICINE

Is seeking two outstanding pediatric neurologists to join an expanding program in the Section of Pediatric Neurology. The PHYSICIAN-SCIENTISTS will develop a clinical- or laboratory-based research program in developmental or applied neuroscience. In addition to their research activities, the physician-scientist is expected to spend 20-30% of their time engaged in clinical child neurology. The Section of Pediatric Neurology has 12 faculty members, 10 of whom participate in clinical or basic science research. The Pediatric Neurology service supports leading programs and multidisciplinary clinics, has an outstanding record of high impact publications, and has been repeatedly ranked by US News and World Report.

The fulltime academic appointment will be at the Assistant Professor, Associate Professor, or Professor level in the Yale School of Medicine, depending on the applicant's qualifications. Requirements include an MD, DO, or foreign equivalent degree; eligibility for medical licensure in the State of Connecticut; and board eligibility or certification by the American Board of Psychiatry and Neurology in Neurology with Special Qualification in Child Neurology. A generous benefits package includes tuition remission for qualified dependents. In order to be eligible for university sponsorship for an H1B visa, graduates of foreign (non-US.) medical schools must show successful completion of all three steps of the U.S. Medical Licensing Exam (USMLE), or equivalent as determined by the Secretary of Health and Human Services.

Yale University is an equal opportunity, affirmative action employer. Women, minorities, persons with disabilities and protected veterans are encouraged to apply. The position will remain open until filled. July 19, 2016

CONTACT VIA EMAIL: Applicants should send a letter of interest, a list of references, and their curriculum vitae to: Nigel S.

Bamford, MD, Section Chief of Pediatric Neurology, Department of Pediatrics, PO Box 208064, New Haven CT 06520-8064. email: nigel.bamford@yale.edu

CNS PERSONNEL REGISTRY

DISTRICT OF COLUMBIA

Child Neurologists (Assistant or Associate Professor Level)

Child Neurology Opportunities at Children's National in Washington, DC

The Division of Child Neurology and the Division of Developmental Pediatrics and Neurogenetics at Children's National Health System are seeking child neurologists at the assistant or associate professor level to join our expanding programs.

Neuro-intensivist (Pediatric Intensive Care Unit [PICU], and Cardiac Intensive Care Unit [Cardiac ICU] at Children's National Health System. Specialty training in Neuro- ICU care and/ or expertise in neurophysiology, preferred.

Neuro-Geneticist primarily at Children's National Health System. Interest; expertize in White Matter Disorders or Epilepsy preferred.

Outpatient-focused neuro-hospitalist primarily at Pediatric Specialists of Virginia and Children's National Health System. Additional expertise in Neurophysiology preferred.

Developmental Pediatrician at Children's National Health System and satellite offices.

The Divisions of Neurology have over 30 child neurologists in multiple subspecialty programs, including seven neuro-intensivists, with a mission of excellence in clinical care, education, and neuroscience research. Children's National is located in the nations capital with ready access to the Blue Ridge Mountains and Atlantic beaches.

The candidate must be board-certified or board eligible in neurology with special qualifications in child neurology or developmental pediatrics.

Interested candidates should send a CV and brief cover letter to:
William D. Gaillard, MD
Division Chief, Neurology
wgaillar@childrensnational.org

Candidates interested in the Developmental Pediatrics or Neurogenetics position should also send a CV and brief cover letter to:

Andrea Gropman, MD
Division Chief, Developmental Pediatrics and Neurogenetics
agropman@childrensnational.org

We are also available to meet at the Child Neurology Society (CNS) meeting.

CNS PERSONNEL REGISTRY

FLORIDA

Pediatric Neurology Faculty

The Division of Pediatric Neurology at the University of Florida College of Medicine in Gainesville, Florida seeks to expand its diverse ranks, which currently consist of six faculty members, five nurse practitioners, and a registered nurse. Three new full-time faculty members will join the group over the next year, including a new director of pediatric epilepsy. The division hosts a number of rapidly growing subspecialty clinics and would like to expand such offerings. A child neurology residency program has been active since 2013, and the faculty also contribute to the teaching of pediatric residents and adult neurology residents.

Openings are available for one physician-scientist and two clinician-educators. For physician-scientist candidates, active external funding or proposals that are viable for external funding would be preferred. Subspecialty areas that we would like to expand include neurodevelopmental disabilities, movement disorders, neonatal neurology, neuro-immunology, epilepsy, neurocutaneous disorders, headaches, and general neurology. Early to mid-career pediatric neurologists are encouraged to apply.

We are ranked in the top 50 nationwide for Pediatric Neurology and Neurosurgery by the 2016 US News and World Report survey of Best Children's Hospitals. The Department of Pediatrics is nationally ranked for nine of the ten subspecialty categories, and is the premier academic medical center for children in northern Florida. The university hosts a broad range of NIH-funded investigators, with a strong institutional commitment to mentoring early career faculty. There is an abundance of research opportunities.

Gainesville, Florida is a classic college town, with numerous cultural offerings, abundant housing options, easy commutes, and outstanding school districts. The area is known for its natural beauty, with many springs, lakes, and rivers. The climate encourages outdoor activities such as swimming, boating, fishing, bicycling, and camping.

Inquiries may be sent to Peter B. Kang, MD, Chief, Division of Pediatric Neurology, pbk-ang@ufl.edu

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Pediatric Neurology

Joe DiMaggio Children's Hospital at Memorial is seeking a Pediatric Neurologist to join our busy team of six pediatric neurologists, two ARNPs and one PA. Physician should be BE/BC in neurology with special qualification in child neurology. Though not required, those with additional sub-specialty fellowship training in clinical neurophysiology, epilepsy, movement disorders or stroke are encouraged to apply. Inpatient coverage will be required in addition to a clinic schedule. Research initiatives will be fully and actively supported through the Office of Human Research, though this is not a requirement of the position.

This is a full-time employed position with the multispecialty Memorial Physician Group. The position offers competitive benefits and a compensation package that is commensurate with training and experience. Professional malpractice and medical liability are covered under sovereign immunity.

About Joe DiMaggio Children's Hospital:

Joe DiMaggio Children's Hospital opened in 1992 and has grown to be the leading children's hospital in Broward and Palm Beach counties. With 232 beds, an 84-bed Level II and III NICU, 30-bed PICU and 12-bed intermediate care unit, Joe DiMaggio Children's Hospital combines leading-edge clinical excellence with a child- and family-friendly environment that emphasizes the Power of Play. Located in the heart of South Florida, a region whose quality of life attracts new residents from all over the country and around

Advocate Children's Hospital

Pediatric Neurologist
South Chicago

Advocate Children's Medical Group has immediate needs for BC/BE Pediatric Neurologist to join our growing practice at Advocate Children's Hospitals Oak Lawn Campus, and surrounding suburban clinics, located just south of Chicago.

Our ideal candidate has experience, an enthusiastic approach to providing care for children in busy clinical setting, demonstrates sharply honed interpersonal skills to work in concert with a well-established group, desire to act autonomously in the absence of peers, embraces a culture that places both patient and family in the highest regard while willing to quickly address a large patient population. Desire to teach residents, students, nurses and fellows is encouraged. Our community has enormous demand and diverse pathology with a large draw of complex patients.

This is a full time clinical based position requiring a BC/BE Pediatric Neurology physician to provide coverage of ACH pediatric patients aged 0-18 in a collaborative work environment, participate in inpatient consult service on the medical floors of ACH-Oak Lawn and lead outpatient clinics at 1-2 locations. The provider will interpret EEGs and assist in supervision and teaching of pediatric residents. In-patient rounding and call coverage required in conjunction with other area physicians where applicable. Opportunities for research and professional growth exist.

General pediatric neurology clinics will be arranged with a minimum of 34-36 clinical hours per week, dependent upon availability. May be asked to assist in providing cross coverage when other attendings are out of office. Available to see inpatient follow-ups and new consults. Rotation of call 1-2 weeks per month. The physician will be responsible for their own clinical patient coverage and after hours coverage for their patients. On-call coverage and consultation services to be determined based on the hospital scheduling and needs. Coverage for physicians on vacation or sick leave.

Applicant should be an MD or DO, BE/BC by the American Board of Psychiatry and Neurology as a neurologist with special qualifications in child neurology. Consider joining our team committed to providing evidence based, compassionate care.

Compensation and comprehensive benefits are through AMG, a multi-specialty group with 1,300+ physicians and affiliated with the Advocate Health Care system, the largest provider of healthcare in Illinois. Advocate Children's Hospital serves as a major referral center and is the largest network provider of pediatric services in Illinois and among the top 10 in the nation.

Interested candidates detailed cover letter and CV to:
Nancy.mathieu@advocatehealth.com

Please visit
www.amgdoctors.com/about-us/ www.advocatechildrenshospital.com/ach/

FLORIDA continued

the world, Joe DiMaggio Children's Hospital offers a comprehensive range of healthcare services delivered with kindness, dedication and compassion.

About South Florida:
South Florida offers a dynamic urban/suburban lifestyle with an abundance of cultural and recreational amenities, miles of beautiful beaches, top-rated golf courses, zoos and wildlife refuges, a vibrant arts community, museums and world-class dining. South Florida's high quality of life including year-round summer weather, exciting multiculturalism and no state income tax attracts new residents from all over the country and around the world.

To submit your CV for consideration, please visit memorialphysician.com. Additional information about Memorial Healthcare System can be found at mhs.net.

Child Neurologist – Palm Beach, FL

We are seeking our 4th Child Neurologist to join our thriving practice in beautiful southeast Florida. 3 MD, 2 ARNP practice with 3 office locations. Come see why Florida is now the 3rd largest state in the country. Excellent schools, beautiful beaches and no state taxes. We enjoy a very high quality of life and a stable, growing practice. We are looking for an experienced Child Neurologist who will complement our practice and enhance our community.

E-mail: rleighliu@gmail.com

Deadline: December 31, 2016

CNS PERSONNEL REGISTRY

ILLINOIS

See ad at left.

Pediatric Epileptologist

Ann & Robert H. Lurie Childrens Hospital of Chicago is seeking a full-time pediatric neurologist with expertise in pediatric epilepsy. The position includes an academic appointment of Assistant Professor on the non-tenure track in the Department of Pediatrics at Northwestern University Feinberg School of Medicine. Salary and academic rank are commensurate with qualifications.

The candidate will participate in coverage of the EMU and inpatient service along with other attending epileptologists. The candidate will also maintain outpatient clinics for epilepsy patients at both our main site and/or our outreach satellite locations. There are also opportunities to participate in resident and fellow teaching, as well as engaging in clinical/translational research. Proposed starting date is flexible. Applications will be accepted until the position is filled.

Website: Luriechildrens.org

Email: l-epstein@northwestern.edu

Pediatric Neurology Opportunity in Urbana, IL

Carle Physician Group in Urbana, Illinois, is seeking an additional full-time BE/BC Pediatric Neurologist to join an established department.

Practice Opportunity Details Include:

- 100% child neurology practice
- Call consists of only Pediatric Neurology
- Established sleep program
- EEG services at the hospital; onsite MRI and CAT scanning equipment
- More than 20 physicians in the Pediatric department
- Pediatric subspecialists include Critical Care, Surgery, Cardiology, Pulmonology, Gastroenterology, and Developmental-Behavioral
- Three Pediatric Psychologists on staff
- 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

With 400+ physicians and 300 advanced practice providers, comprising 80 specialties/subspecialties, and a service area of 1.5 million residents. Carle Physician Group is locally owned and physician led. Our physician group is part of a not-for-profit integrated network of healthcare services that also includes Carle Foundation Hospital; a quality focused and nationally ranked 393-bed regional hospital that is a designated Primary Stroke Center, Level I Trauma Center, and offers Level III Perinatal services.

Globally connected, innovative and culturally rich, Champaign-Urbana is centrally located to Chicago, Indianapolis and St. Louis and is home to one of the world's great public research universities – the Big Ten University of Illinois. With ease of transportation, excellent schools and affordable housing options, our community features the friendliness and advantages of a smaller town while offering the dining, arts, sports, and entertainment options found in a much larger city.

Contact:
Carson Alexander
carson.alexander@carle.com

Website
https://www.carleconnect.com/

Epileptologist

PEDIATRIC NEUROLOGIST – Epileptologist
Rush University Medical Center Chicago

The Department of Pediatrics and the Section of Pediatric Neurology at Rush University Medical Center, located in downtown Chicago, is seeking an additional epilepsy qualified pediatric neurologist. The ideal candidate will possess a strong commitment to clinical care, education and research with particular emphasis in pediatric epilepsy.

The Division of Pediatric Neurology is part of the Departments of Pediatrics and Neurology. Pediatric epilepsy is currently managed with strong integration with the large well established adult epilepsy program with a full range of tertiary epilepsy services. An additional pediatric epilepsy specialist is being recruited to help a build a separate pediatric epilepsy unit. The pediatric neurology program has a strong research infrastructure with multiple active research projects are ongoing in the division with focuses on muscular dystrophy, Fragile X disease, Rett syndrome, Neimann-Pick C, epilepsy and other neurogenetic areas.

Qualified candidates must have completed an approved Pediatric Neurology training program and be Board Certified/Board Eligible in Pediatric Neurology as well as Neurophysiology or epilepsy. Candidates will be eligible for a faculty appointment in Rush Medical College as Assistant Professor or level commensurate with their experience and accomplishments.

The ideal candidate will be actively involved in teaching for medical students, Pediatric residents, and Neurology residents at Rush. Clinical responsibilities include inpatient and out-patient care at Rush and Stroger Cook County Hospital, which is located one block away. There will also be opportunities at outreach sites throughout Chicagoland.

This recruitment is part of a key strategic growth initiative within the Department of Pediatrics. Rush is home to one of the first medical colleges in the Midwest and one of the nations top-ranked nursing colleges, and outstanding Pediatric and Neurology training programs. Rush is an Equal Opportunity Employer.

For interested candidates who will be attending the upcoming Child Neurology Society annual meeting this October please advise and we will be happy to connect you with one of our Pediatric neurology faculty that will be attending.

Please contact:
Leah Tyrrell
Manager, Faculty Recruitment
312/563-6074
Leah_M_Tyrrell@rush.edu
At Child Neurology Meeting:
Peter Heydemann, MD
Section Head, Pediatric Neurology
773/965-5478
Peter_Heydemann@rush.edu
Or Elizabeth Berry-Kravis, MD, PhD
Elizabeth_Berry-Kravis@rush.edu

CNS PERSONNEL REGISTRY

IOWA

Pediatric Neurologist

Practice in the Wealthiest City in America!

Mercy Children's Hospital & Clinics is seeking a BC/BE Pediatric Neurologist to join an existing community based practice that has tremendous upside potential. Candidates with a Fellowship in Epilepsy are preferred. This opportunity offers competitive compensation including sign-on bonus, 401k match, and paid malpractice.

Practice Details:

- 1 physician & 1 APC
- 5-8 inpatients per week
- Equitable call
- Outpatient practice located on main campus of Mercy

IOWA continued

Mercy Children's Hospital & Clinics
- Level-III 40-bed NICU
- 9-bed unit PICU
- Central Iowa's only Pediatric CV Surgery Program
- Pediatric Emergency room with 12 beds & 3 trauma beds
- 22-bed Med/Surg Unit
- Newly renovated 16-bed Pediatric Psychiatry Unit
- Access to Pediatric Subspecialists
- 7 Pediatric Sites throughout central Iowa

Des Moines
- Top 10 Best Places to Practice in the U.S. 2016 Medscape
- Wealthiest City in America The Today Show
- Leading place for Business and Careers Forbes
- Best City for Families Kiplinger
- Voted as the Safest City in America – Gallup
- Best City for Young Professionals – Forbes
- Listed as one of America's Five Best Cities for Retirement Bankrate

Located in America's heartland, Iowa offers the balanced professional/personal lifestyle everyone seeks. Living in Iowa provides you with the benefits of a strong economy with abundant recreational activities (and the time to explore them).

As Iowa's increasingly diverse and largest city, Des Moines and the metro area is home to nearly 600,000 people offering nationally ranked schools, cultural amenities, access to higher education, and low crime rates.

We invite you to take a closer look by visiting www.seizedesmoines.com, www.desmoinesmetro.com or www.seedesmoines.com

CNS PERSONNEL REGISTRY

LOUISIANA

Pediatric Neurology and Epilepsy

We're seeking Board Eligible/Board Certified Pediatric Neurologists and those with additional training in Clinical Neurophysiology for Ochsner Hospital for Children in New Orleans, Louisiana.

This is an exciting opportunity to join Ochsner's rapidly growing team, which includes a full spectrum of over 120 pediatric physicians, medical and surgical subspecialty teams. The group is the regions leading integrated provider of multispecialty care for infants, children, adolescents, and young adults offering a full range of pediatric services, including solid organ transplantation and pediatric cardiovascular surgery. The current facilities include a 52-bed Level III-C NICU, a 14-bed PICU, and a 35-bed General Pediatric Unit.

Located in one of our most vibrant cultural cities, this nonprofit, academic, multi-specialty institution is the recipient of numerous awards, including Healthgrades Distinguished Hospitals for Clinical Excellence, which places Ochsner in the top 5 percent of U.S. hospitals for clinical outcomes. Ochsner also has a combined residency program with Tulane University Medical School. Medical students from Tulane and the University of Queensland/Ochsner Clinical School rotate through the division. The successful candidate will be eligible for an academic appointment commensurate with experience.

The appeal of living in New Orleans is absolutely undeniable. The city exudes a character all its own and residents have a passionate attitude to life. New Orleans is an unparalleled blend of cultures. Regarded as a city of neighborhoods, New Orleans is best traveled by foot, but you can also hop on one of the city's historic streetcars or join the growing legion of commuters by bicycle. NOLAs neighborhoods each have a distinct architectural flavor and include everything from traditional Antebellum style to historic bungalows and cottages to modern lofts. Professional sports, gorgeous city parks, year-round festivals, prestigious academic centers and universities, and Southern hospitality are only the beginning. The local economy is diverse, with oil and gas, tourism, shipbuilding and aerospace among the top industries, along with health care and education; several world-class colleges and universities are situated here. If youre craving the beach, the Gulf Shores of Alabama are about two and a half hours away by car; and the white sands of Pensacola, Florida, are just three hours away. Its easy to understand why residents take great pride in calling New Orleans their home.

For complete details and consideration, please contact:
Glenda Smith, Principal,
Pediatric Search Partners
Phone 877/440-3832, Cell 214/850-3094
or email
glenda@pediatricsearchpartners.com

CNS PERSONNEL REGISTRY

MARYLAND

See ad right.

Medical Officer

The FDA's Office of New Drugs actively recruiting Pediatric Neurologists to serve in the dynamic, highly challenging and innovative atmosphere of drug development and research. Medical Officers are the cornerstone of FDA's mission to ensure the safety and efficacy of drug products. As a medical officer, you will have the opportunity to:

- Advance public health through new drug development
- Interact with pharmaceutical companies and develop health policy
- Work with a wide range of scientific disciplines in a team-oriented and intellectually stimulating environment
- Receive comprehensive on-the-job training and professional development

SALARY & BENEFITS

- Civil service base salary at the GS-14 level, plus a generous supplemental allowance determined by relevant experience, medical specialty, and board certification.
- Excellent Federal Government benefits package (health insurance, life insurance, retirement, etc.)
- Relocation expenses and student loan repayment may be paid to eligible candidates.
- Optional weekly professional development time in order to maintain clinical skills

QUALIFICATIONS

Physicians with experience in rare diseases with neuromuscular manifestations are highly desired. Applicants must have a Doctor of Medicine or Doctor of Osteopathy degree from an accredited medical school. Graduates of foreign medical schools must be certified by the Education Commission for Foreign Medical Graduates (ECFMG). Candidates for Civil Service or U.S. Commissioned Corps must be U.S. citizens. Permanent

U.S. residents may apply for staff fellowship appointments.

FURTHER INFORMATION

If you have any questions, you may direct them to the Recruitment Team at OND-Employment@fda.hhs.gov or (301) 796-0800. Those who wish to apply should submit their cover letters and CV/resumes to OND-Employment@fda.hhs.gov. Please indicate that you are applying to source code #016-040JT.

FDA IS AN EQUAL OPPORTUNITY EMPLOYER WITH A SMOKE FREE ENVIRONMENT

Developmental Pediatrician

The Center for Autism and Related Disorders (CARD) at the Kennedy Krieger Institute in Baltimore, Maryland is recruiting a Developmental Pediatrician for our growing clinical program in autism spectrum disorder (ASD). We are seeking a Board Certified Developmental Pediatrician with a focus in neurodevelopmental disabilities and expertise in autism. The primary responsibilities of the Developmental Pediatrician will be patient care with opportunities for research and academic scholarship as desired and guided by the goals and objectives of the Center for Autism and Related Disorders. The Developmental Pediatrician will be responsible for delivering diagnostic evaluation in the team approach to patient assessment and provide follow-up care for a panel of outpatients within the scope of the privileges approved by the Institute to ensure the appropriateness and adequacy of the individual treatment plans. Qualified applicants will be eligible for faculty appointment at Johns Hopkins University. The Johns Hopkins University School of Medicine faculty rank will be commensurate with experience.

Kennedy Krieger Institute, located in downtown Baltimore, is a national leader in pediatric rehabilitation and transforms the lives of children with disorders of the brain through groundbreaking research, innovative treatments and life-changing education.

The Center for Autism and Related Disorders, under the leadership of Dr. Rebecca Landa, has been expanding its vibrant research, clinical and educational programs. CARD is a multifaceted, interdisciplinary program serving children, families and professionals in the ASD community. The center combines research, clinical service and training programs to unlock the potential of children with ASD, enrich their life experiences, empower parents and promote the well-being of families through evidence-based practices. One of our major endeavors is developing effective new models of care for families and providers locally, nationally and internationally.

Excellent salary and benefits are offered, including partial college tuition remission for faculty member dependents (at any college) and tuition remission for faculty members, spouses and dependents for course work performed at the Johns Hopkins University and the Peabody Music Institute.

Interested applicants can visit www.kennedykrieger.org for additional information and should forward their cover letter and CV via email to Recruiter@kennedykrieger.org.

www.kennedykrieger.org

EOE/M/F/Disability/Protected Vet

Mid-Atlantic Pediatric Neurology Opening 150222

Nationally recognized health system in Mid-Atlantic Metro Region

Pediatric Neurology

- Opportunity to work with group of Pediatric Neurologists
- Childrens Hospital on campus
- Practice 100% Pediatric Neurology. Department has growing Pediatric Epilepsy Program

Developmental Pediatrician

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Interested applicants can visit **www.kennedykrieger.org** for additional information and should forward their cover letter and CV via email to **Recruiter@kennedykrieger.org.**

Kennedy Krieger Institute

www.kennedykrieger.org

EOE/M/F/Disability/Protected Vet

MARYLAND continued

- Position offers opportunities for collaboration with colleagues in the Department of Neurology Brain and Spine Program
- Teaching opportunity availableas part of the practice with one of the strongest Pediatric Residency Program in the country
- Large Number of Pediatric Subspecialities employed at the Childrens Hospital
- Excellent starting salary plus RVU bonus plus full benefit package including paid malpractice

The states largest city and economic hub features a beautiful harbor and distinct neighborhoods

- Family-friendly community with top-notch school systems
- Variety of museums including the Museum of Art and the Museum of Industry
- Home to professional football and baseball teams
- Vibrant social scene with dining and nightlife, lively downtown with world-class restaurants and excellent entertainment

Rob Rector
800-492-7771
Direct: 404-591-4218
rrectorweb@phg.com
F: 404/591-4269
Cell/Text: 678/234-6192

MENTION CODE 150222 - CHN

Minimum Requirements:
MD or DO Medical Degree
Eligible to be state licensed in the United States
United States Residency and/or Fellowship training

CNS PERSONNEL REGISTRY

MASSACHUSETTS

Pediatric Neurology Position: Massachusetts

The Department of Pediatrics at the University of Massachusetts Medical School and UMass Memorial Health Care has two openings in the Division of Pediatric Neurology. The division has a strong clinical focus, and a commitment to medical education and research. We are expanding our group, which at present consists of four Pediatric Neurologists and one nurse practitioner. There is a busy outpatient service, as well as a consult service for pediatric in-patients with neurological problems. On-call responsibilities are shared equally among the physicians. The present group of pediatric neurologists includes those with expertise in Epilepsy, Autism, and Sleep disorders. The new positions can be tailored to the strengths and interests of applicants.

UMass Memorial Medical Center (UMMC) is the primary academic health care partner of the University of Massachusetts Medical School (UMMS). It has a large referral base including affiliations with multiple community hospitals. The Children's Medical Center, a member of the Children's Hospital Association, is the only tertiary care hospital for children in central MA and offers comprehensive Pediatric services, including the full range of pediatric subspecialties, a pediatric intensive care unit, neonatal intensive care unit, and pediatric emergency department with trauma services.

The University of Massachusetts Medical School is consistently ranked in the top 10% nationally for primary care education. There are ample teaching opportunities and the present Pediatric Neurology faculty participate actively in both undergraduate and postgraduate teaching. The Pediatric Residency program accepts 8 pediatric and 4 Med/Peds residents a year. The Adult Neurology residency program accepts 6 Neurology residents and one Neuropsychiatry resident each year. The division of Pediatric Neurology is responsible for the mandatory pediatric component of neurology training for residents on the Adult Neurology and combined Neurology/Psychiatry residency program. In addition, Pediatric residents, Psychiatry residents and Child Psychiatry fellows rotate through Pediatric Neurology. The Medical School has a dynamic research enterprise and NIH funded Center for Translational Science and Innovation, including a simulation center.

Applicants will be considered for appointment at Assistant or Associate Professor level, depending on experience. Candidates should be board eligible/ board certified in Neurology with Special Qualification in Child Neurology.

Interested applicants should submit a cover letter and CV to:

Seema Adhami, MD,
Chief, Division of Pediatric Neurology
Clinical Associate Professor,
Department of Pediatrics
University of Massachusetts Medical School
UMass Memorial Childrens Medical Center
C/O Carolyn Jacobs, Physician Recruiter
Tel: 774/442-9412
Email: Carolyn.Jacobs@umassmemorial.org

The University of Massachusetts is an Equal Opportunity Affirmative Action Employer

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Chief of Child Neurology and a Faculty Child Neurologist

Baystate Health, a Truven Awardwinning healthcare system and home of the University of Massachusetts Medical School-Baystate, is searching for a Chief of Child Neurology and a Faculty Child Neurologist to join Baystate Children's Hospital in Springfield, MA.

These opportunities feature:
Practice in our beautiful new state-of-the-art outpatient facility which is home to 15 pediatric specialties. Excellent outpatient EEG lab, strong hospitalist, genetics, neuroradiology, and pediatric neurosurgery support.

Combination of clinical care and resident and medical student teaching with University of Massachusetts School of Medicine faculty appointment commensurate with experience.

Division Chief opportunity features:
The new Chief will have full institutional support to develop innovative approaches to enhance our inpatient consulting and busy outpatient program. We currently have a comprehensive inpatient and outpatient neurophysiology service including routine EEG, ambulatory EEG and long-term video monitoring.

Our ideal candidate is a clinician-educator with outstanding clinical and teaching skills, a track record of scholarly productivity in clinical pediatric neurology and/or education, and leadership potential. Having demonstrated academic excellence and professional leadership in his/her own career, he or she will engage other leaders and staff to enhance

both academic and clinical growth. The new Chief will have the opportunity to recruit a junior faculty physician to the Division. Special consideration for those boarded in Neurodiagnostics to develop a comprehensive epilepsy program.

Ability to promote scholarship, including clinical, QI and outcomes-based research and to provide scholarly mentorship.

Baystate Children's Hospital (BCH) is a hospital-within-a-hospital at Baystate Medical Center in Springfield, MA, and the only accredited children's hospital in the region delivering a higher level of care to infants, children and adolescents. Equipped with 110 beds, including a busy NICU and PICU, BCH is 5star rated and provides more than 50 inpatient and outpatient services.

For more information, please contact:
Dr. Charlotte Boney, Chair of Pediatrics
c/o Melissa Hale, Physician Recruiter
Phone: 413/794-2624 Fax: 413/794-5059
Email: Melissa.Hale@BaystateHealth.org
Or visit us online at www.choosebaystatehealth.org/cn/cns

Baystate Health is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, or Protected Veteran status.

Pediatric Neurologist at Massachusetts General Hospital/ Harvard Medical School

The Section of Pediatric Neurology in the Department of Neurology, Massachusetts General Hospital is recruiting a board certified Neurologist at the level of Instructor, Assistant Professor, or Associate Professor with experience and interest in joining our busy clinical practice in the role of clinician educator. Successful applicants should have a completed a neurology residency in a major teaching hospital and should be familiar with working with neurology residents, interns and fellows within an academic neurology department in a general hospital setting. Advanced training is welcome, but not required. Travel to satellite clinic locations may be required. An appointment at the Harvard Medical School at the appropriate level will be considered. Women and minority applicants are encouraged to apply.

Interested candidates should submit a c.v. and cover letter to: Merit Cudkowicz, MD, MSc, Chief, Neurology Service, WAC720, 55 Fruit St., Boston, MA 02114 or via email to MGHNeurologySearch@partners.org

CNS PERSONNEL REGISTRY

MICHIGAN

Division Chief, Pediatric Neurology

The Department of Pediatrics at Wayne State University School of Medicine and the Children's Hospital of Michigan in Detroit, Michigan is seeking a Chief for the Division of Neurology at the rank of Associate Professor or Professor. The Division is comprised of nine board certified pediatric neurologists and four nurse practitioners, and has active pediatric neurology residency and fellowship training programs. As an internationally recognized program with both clinical and research expertise, the Division currently has seven NIH funded grants, robust pediatric neurosurgical and neuroimaging programs, and is a leading center for Positron Emission Tomography imaging in the management of childhood epilepsy.

The ideal candidate will be an accomplished pediatric neurologist with a track record of clinical and academic leadership.

CNS PERSONNEL REGISTRY

MINNESOTA

Pediatric Neurologist

Gillette Children's Specialty Healthcare in St. Paul, Minnesota is seeking an additional BC/BE pediatric neurologist to join our established and expanding Neurosciences team. Gillettean independent children's hospital and clinics provides excellent care to children with neurologic and orthopedic disabilities and highly complex conditions.

The Neurosciences team works collaboratively with our PICU, Neuroradiology, Neuropsychology, Neurosurgery, and Rehabilitation Medicine specialists. Our Pediatric colleagues provide inpatient care for our consultative patients and we have the largest group of board-certified pediatric rehabilitation medicine physicians in the nation. Excellent skilled nursing staff, both outpatient and on our Neurosciences Unit, provide outstanding support. We collaborate with other systems by providing consultative neurology service to a busy NICUs neonatal neurointensive care program and are a partner in a Level I pediatric trauma center.

Opportunities for teaching are plentiful and clinical research interests are welcomed.

The Twin Cities of Minneapolis and St. Paul, ranked in the top 10 most livable places, offer cultural opportunities, sports teams and fantastic outdoor activities all leading to a wonderful quality of life. WorkplaceDynamics ranks Minnesota as No. 1 of 45 regions for workplace satisfaction, and Gillette has been ranked as a Top Work Place in Minnesota yearly for the past six years. Gillette offers competitive salaries, benefits, and is an equal opportunity employer.

For more information, contact Beverly Wical, M.D., Section Chair Neurology and Sleep Medicine (bwical@gillettechildrens.com or 651/325-2325) or Kit Brady, Vice President for Human Resources (KBrady@gillettechildrens.com).

CNS PERSONNEL REGISTRY

MISSOURI

Child Neurologist

Children's Mercy Hospital – Kansas City is seeking board eligible/certified child neurologists to join a growing group of 15 faculty in the Department of Pediatrics, Division of Neurology.

Our division is committed to clinical excellence, education, and research and is continuing to grow. Children's Mercy has very competitive salaries and benefits, with excellent physician support and high job satisfaction. We provide opportunities for faculty career development including support for academics and research. We are a growing Level IV comprehensive pediatric epilepsy and surgery program. Our program includes 7 pediatric epileptologists, 4 pediatric

MISSOURI continued

neurosurgeons, large ketogenic diet and VNS programs, and a 4 bed pediatric epilepsy monitoring unit expanding to an 8 bed unit. We have a comprehensive headache section with multidisciplinary treatment approaches including acupuncture and massage therapy. Our program boasts a Tourette Association Center of Excellence, one of nine in the nation. We also have a growing spasticity and movement disorder program, as well as a very successful pediatric Deep Brain Stimulation program. We have a number of subspecialty clinics and research collaborations with our Pediatric Genomic Medicine and Personalized Medicine Centers. We are developing additional new programs, e.g., neonatal neurology, pediatric stroke, and neurocritical care with strong institutional support.

Children's Mercy has a large primary pediatric residency with over twenty fellowship programs including a Child Neurology residency (2 per year) and a Clinical Neurophysiology fellowship. We are also the pediatric training site for the University of Kansas Medical Center neurology residency. This position will offer a primary academic appointment at the University of Missouri – Kansas City and the option of a secondary appointment at the University of Kansas Medical School.

Children's Mercy is one of the country's premiere free-standing pediatric clinical, academic and research medical centers with more than 40 pediatric subspecialty clinics, 317 beds, and the region's only Level 1 pediatric trauma center. We have a number of satellites including Children's Mercy Kansas, with outpatient clinics, an Emergency Room and 60 inpatient beds. With over 300 faculty members in our divisions, sections, and centers of excellence, our Department of Pediatrics is one of the largest and most comprehensive in the country. Our hospital has over 14,000 inpatient admissions and 400,000 outpatient visits per year. It is a Magnet(tm) recognized pediatric health system for excellence in nursing services. It provides a strong commitment to basic & clinical research with dedicated personnel to assist and oversee grant efforts in a dedicated Clinical Research Unit. Our Pediatric Pharmacology clinical & research program is one of the nation's largest and collaborates closely with all divisions. EOE/M/F/Disabled/VET

The Kansas City metropolitan area is a bi-state community with over 2 million residents. The city is cosmopolitan with one of the lowest costs of living of all major U.S. cities. Its small-town friendliness is accompanied by excellent dining, entertainment, incredible jazz, professional sports, and museums. Kansas City offers excellent opportunities for K-12 education in both public and private school venues; two Kansas City area suburban schools are listed among the Best Schools in the Nation. It is home to several colleges and universities. This all combines to make Kansas City a wonderful place to live and pursue a career.

Steven M. Shapiro MD, MSHA – Division Chief

Ahmed T. Abdelmoity, MD, FAAP – Associate Division Chief

Mary Kinart, Physician Recruiter
Medical Administration & Physician Recruitment
866/CMH-IN-KC | 866/264-4652
Qualified candidate should submit their CV to physicianjobs@cmh.edu

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Fetal-Neonatal Neurology Fellowship Washington University/St. Louis Children's Hospital

The Washington University School of Medicine/St. Louis Children's Hospital Division of Child Neurology in St. Louis, Missouri is pleased to announce the availability of a 1-year fully-funded position in its Fetal-Neonatal Neurology Fellowship Program. The position is available from July 1st, 2017. This training program will provide outstanding clinical training and research opportunities in fetal-neonatal neurology and neonatal neurocritical care, preparing trainees for careers in clinical and/or academic medicine. The fellow will participate in inpatient and outpatient clinical evaluations of fetuses and neonates with neurological concerns, interpretation of bedside monitoring (e.g., aEEG and continuous EEG), conventional and advanced MRI techniques and neurogenetics. Clinical and research experience during this fellowship will be tailored to the career needs of the individual applicant. Applicants should be medical physicians who hold a degree from a US/Canadian medical school and residency or an ECFMG certificate.

Additional information regarding the Program can also be found at: https://neuro.wustl.edu/education/fellowships/neonatal-neurology/

If interested, for application information please contact:
Bradley L. Schlaggar, M.D., Ph.D.
schlaggarb@neuro.wustl.edu
A. Ernest and Jane G. Stein Professor of Developmental Neurology
Head, Division of Pediatric and Developmental Neurology
Director, Neonatal Neurology Fellowship Program
Neurologist-in-Chief, St. Louis Children's Hospital
Washington University School of Medicine

Neurodevelopmental Disabilities Trained – Child Neurologist

We, the Children's Mercy Hospital Division of Neurology, are actively recruiting a board eligible/board certified child neurologist with training in Neurodevelopmental Disablities. This position would consist of one day of clinic a week in our Tourette Syndrome Center of Excellence, one day a week as part of our Cardiac Neurodevelpmental Clinic, and the other three days will be left for the candidate to develop based on his or her interests.

Our Tourette Syndrome Center of Excellence is one of only nine in the country. This program consists of nine staff members including Neurodevelopmental Disabilities, Child and Adolescent Psychiatry, Neuropsychology, Occupational and Family Therapies, two Neurology APRNs a Nurse Coordinator, and a Neurology Clinic nurse. We are the Center of Excellence in the Midwest region of the United States and attract patients from all over the United States. We have a rapidly developing research program to complement our robust clinical program.

Our Cardiac Neurodevelopmental Clinic is a vibrant program that began three years ago. This multidisciplinary program helps

to care for children and adolescents affected by heart disease. Care team members include neurodevelopmental disabilities, neuropsychology, cardiology, physical, occupational and speech therapies, psychology and social work. Our institution has a large cardiology and cardiothoracic surgery programs including the recent addition of heart trans-plantation within the last two years. This program includes both inpatient and outpatient opportunities for patient care. A research program is being developed to complement the patient care of this remarkably awarding patient population.

Our division is committed to clinical excellence, education, and research. Children's Mercys has very competitive salaries and benefits, and excellent support for physicians and staff which results in high job satisfaction. We provide opportunities for faculty career development including support for research. We have a growing, Level IV comprehensive pediatric epilepsy and surgery program with 7 pediatric epileptologists, 4 pediatric neurosurgeons, large ketogenic diet and VNS programs, and 4 bed pediatric epilepsy monitoring unit with plans to expand to 8 bed unit. We have a comprehensive Headache Section of Neurology with a multidisciplinary treatment approach. We have a growing Spasticity and Movement Disorder program, including a pediatric deep brain stimulator (DBS) program. We have a number of subspecialty clinics and are building research collaborations with our centers of Pediatric Genomic Medicine and of Individualized Pediatric Therapeutics.

Children's Mercy Hospitals & Clinics is one of the country's premiere free-standing pediatric clinical, academic and research medical centers with more than 40 pediatric subspecialty clinics, 317 beds, and the regions only Level 1 pediatric trauma center. With over 300 faculty members in our divisions, sections, and centers of excellence, our Department of Pediatrics is one of the largest and most comprehensive in the country. Our hospital has over 14,000 inpatient admissions and 400,000 outpatient visits per year. It is a Magnet recognized pediatric health system for excellence in nursing services. It provides a strong commitment to basic & clinical research with dedicated personnel to assist and oversee grant efforts in a dedicated Clinical Research Unit. Our Pediatric Pharmacology clinical & research program is one of the nation's largest and collaborates closely with all divisions. EOE/M/F/Disabled/VET

Kansas City is a bi-state community with close to 2 million residents. The city is cosmopolitan with one of the lowest costs of living of all major U.S. cities. Its small-town friendliness is accompanied by excellent dining, entertainment, incredible jazz, professional sports, and museums. Kansas City offers excellent opportunities for K-12 education in both public and private school venues; two Kansas City area suburban schools are listed among the Best Schools in the Nation. It is home to several colleges and universities. This all combines to make Kansas City a wonderful place to live and pursue a career.

Steven M. Shapiro MD,
MSHA Division Director
Ahmed T. Abdelmoity, MD,
Associate Division Director

Mary Kinart, Physician Recruiter
Medical Administration & Physician Recruitment
866/CMH-IN-KC | 866/264-4652

Qualified candidate should submit their CV to physicianjobs@cmh.edu or apply on line at http://www.childrensmercy.org/careers/nursing/physician.asp

CNS PERSONNEL REGISTRY

NEBRASKA

Nebraska Pediatric Neurology Opening 150903

Pediatric Neurology

- Outpatient Pediatric Neurology Practice supported by Pediatric Hospitalists (No ED) and by 35 Primary Care Pediatricians
- Growth and Leadership opportunities
- Full Spectrum Neurology Service including Developmental, Behavioral Health, and University and NIH Research collaboration opportunities
- Full EEG Program, 3T fMRI and Teleneurology
- Vagus Nerve Stimulator implant Program
- Nationally recognized for Neurobehavioral Research

1 City to Raise Kids, per Kiplingers

School District Noted for its Excellent Educational Institutions

Host city of Team USA Olympic Swim Trials

- Big 10 Football and Big East Basketball
- NCAA March Madness Regionals
- Annual host to the NCAA Mens College Baseball World Series
- Cost of Living is 12.8% Below National Average
- Home to 4 Fortune 500 Companies
- Jazz and Art Center, Symphony, Broadway Productions and the #1 rated zoo in the US
- Fine dining, shopping and endless amenities

Mike Healy
800-492-7771
Direct: 404-591-4235
Email: mhealyweb@phg.com
Fax: 404-591-4275
Cell/Text: 404-401-6322

MENTION CODE 150903 - CHN

Minimum Requirements:

- MD or DO Medical Degree
- Eligible to be state licensed in the United States
- United States Residency and/or Fellowship training

Clinical Service Chief & General Ped Neurologists needed Academic Opp in Omaha

Well-established group of six seeks both a Clinical Service Chief of Pediatric Neurology and a general Pediatric Neurologist for 145-bed, non-profit, full service Midwest Children's Hospital and Medical Center. Our program combines extensive experience and compassion with the latest technology.

Your career will benefit from:

- Immediately busy clinical practice
- Dedicated administrative time
- Opportunity to develop epilepsy focus for interested and qualified candidates-collaborative relationship with adult epileptologists at the University of Nebraska
- Teaching and research opportunities
- Competitive compensation and generous benefits

NEBRASKA continued

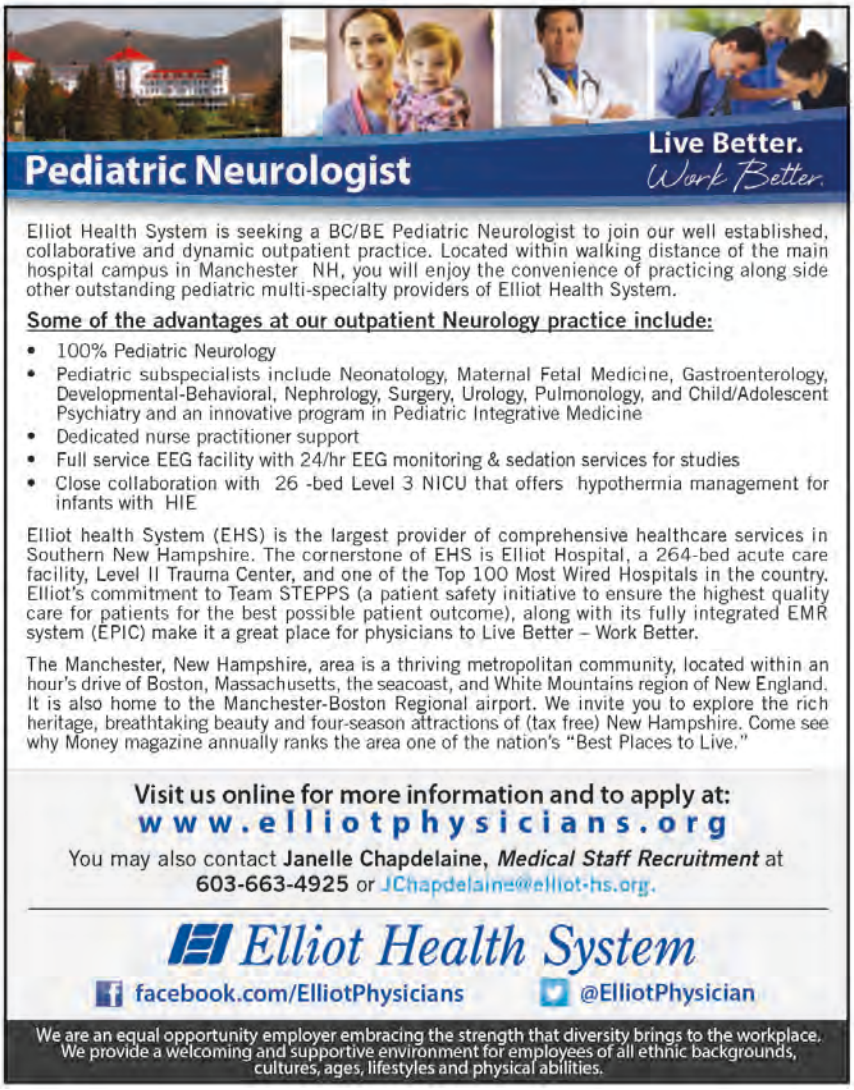
Whatever your stage in life – fresh out of college, raising a family or settling into retirement you'll find our major Midwest location an extraordinary place to live, grow and enjoy. Currently the 42nd largest city in the United States with a metro area over 900,000, we offer universities, a low cost of living, entertaining neighborhoods, and a stable healthy economy. Did we mention authentic Midwestern hospitality?

Please contact Ellie Horgan at 800/678-7858 x64512, email ehorgan@cejkasearch.com, or visit us at www.cejkasearch.com

CNS PERSONNEL REGISTRY

NEW HAMPSHIRE

See ad below.



Pediatric Neurologists

Dartmouth-Hitchcock Clinics Section of Child Neurology seeks additional pediatric neurologists to join our professional staff at several of our system locations throughout New Hampshire. The successful candidates will be BC/BE with excellent general clinical pediatric neurology skills as well as interpersonal skills in maintaining long-term professional relationships with patients and their families. Subspecialty skills and training in all areas are desirable. Opportunities for research and teaching are available.

The Dartmouth-Hitchcock health system stretches over New Hampshire and Vermont and offers the quintessential New England experience. With no income or sales tax, this beautiful area combines history, industry and business and has been ranked consistently as one of the best places in the US to live and work. Anchored by the academic Dartmouth-Hitchcock Medical Center in Lebanon, NH, the system includes the NCI-designated Norris Cotton Cancer Center, the Childrens Hospital at Dartmouth-Hitchcock; 4 affiliated hospitals and 30 Dartmouth-Hitchcock ambulatory clinics across the region. With destinations like Boston, New York, the seacoast and ski country within driving distance, the opportunities both career and personal truly make New Hampshire the ideal place to work and play.

Applicants are encouraged to apply online with CV and cover letter on our Provider Career site: http://www.DHproviders.org

Or you can send a CV and cover letter directly to:

Melody Johnson – Physician Recruiter | Talent Acquisition | Melody.E.Johnson@hitchcock.org

Dartmouth-Hitchcock is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, gender identity, national origin, disability status, veteran status, or any other characteristic protected by law.

CNS PERSONNEL REGISTRY

NEW JERSEY

See ad at right.

Child Neurology Opportunity

Child Neurology Need in the Greater NY Area
The Division of Pediatric Neurology at a leading Children's Hospital in New Jersey seeks an additional full-time child neurologist to join an established group. The position reports to the Director of the Division of Child Neurology and Developmental Medicine, and offers remarkable

opportunities for clinical practice, teaching and scholarly pursuits. Subspecialty expertise within the Pediatric Neurology Division includes Pediatric Neuro-Oncology, Neurodevelopmental Disabilities, Pediatric Headache and Pediatric Neuromuscular Disorders. Candidates must be BC/BE in Child Neurology.

The Children's Hospital hosts over 250 pediatricians and 100 subspecialists and has a remarkable cadre of colleagues from other disciplines including 8 pediatric neurosurgeons. The residency program is robust and residents regularly rotate through neurology in addition to developmental medicine. Morristown is located in suburban northern NJ approximately 1 hour from New York City, 1 hour from the mountains, and 1 hour from the beach.

For further information, contact in confidence: Robin Harrington; 866/867-4808; robin@keymedsearch.com

CNS PERSONNEL REGISTRY

NEW MEXICO

Pediatric Neurologist

Presbyterian Healthcare Children's Service Line is seeking a BC Pediatric Neurologist to join its team. This position will provide clinic visits for neurology patients in a pediatric multispecialty clinic setting as well as inpatient consults and rounding with collaborative management of patients with the NIC, PIC and Pediatric teams. This position will also provide consultation to outpatient pediatric providers in the community. Ideal candidate will be a Pediatric Neurologist with a minimum of 2 years experience.

The Presbyterian Children's Service Line encompasses both inpatient and outpatient services for specialty pediatric care, including a 21 bed Pediatric Intensive Care Unit; a 56 bed Neonatal Intensive Care Unit; and a 35 bed Pediatric Unit. We have a pediatric intensivist, neonatologist and pediatric hospitalist in house 24/7. Our pediatric subspecialties include: cardiology, pediatric cardiovascular surgery, neurology, endocrinology, surgery, ENT, pulmonology, gastroenterology, hematology and oncology, feeding and development, chronic care, infectious disease, nephrology, and radiology.

Presbyterian Healthcare Services is locally owned, not-for-profit fully integrated healthcare provider based in Albuquerque, New Mexico. Our system includes eight hospitals in seven New Mexico cities, a medical group, multi-specialty clinics and a health plan. We have been proudly providing care to New Mexicans for 107 years. Our employed provider group employs more than 700 primary care and specialty providers.

Benefits include:

- Nationally competitive salary with relocation allowance available.
- Generous Paid Time Off (vacation, sick leave, CME and holiday) up to 7 weeks per year
- Comprehensive benefits package
- CME allowance
- 403b retirement savings program with employer contributions of up to 4% (with matching program) and increases with years of service

Albuquerque thrives as New Mexico's largest metropolitan center with a metro area population of over 900,000. It offers gorgeous springs and falls punctuated by moderate summers and mild winters. Albuquerque is considered a destination city for most types of outdoor activities with over 300 days of sunshine annually and is recognized as one of the most culturally diverse cities in the country.

AA/EOE/VET/DISABLED. PHS is committed to ensuring a drug-free workplace.

Learn more about our program at https://www.phs.org/doctors-services/services-centers/childrens-health

Contact Susan Camenisch, Physician Recruiter at 505/923-8718 or scamenisc@phs.org

Online application available at www.phs.org

RUTGERS

Robert Wood Johnson Medical School

Pediatric Neurologist
(Faculty Position)

The Department of Pediatrics at Rutgers Robert Wood Johnson Medical School is seeking a dynamic, career oriented physician at the Instructor/Assistant Professor academic rank for the Division of Child Neurology and Neurodevelopmental Disabilities. The successful candidate will join 3 additional faculty members and will provide both inpatient and outpatient care. The faculty currently supports an active level 4 epilepsy program, concussion program and the only pediatric multiple sclerosis program in the state of New Jersey. Qualified candidates must be board certified/board eligible in Neurology with special qualifications in Child Neurology.

The Department of Pediatrics has a full complement of pediatric medical and surgical subspecialists. Adjacent to the RWJBarnabas Bristol-Myers Squibb Children's Hospital is the PSE&G Children's Specialized Hospital, which is one of the country's largest inpatient acute rehabilitation facilities for children. Across the street is the Rutgers Cancer Institute of NJ – the only NCI-designated center in the state of New Jersey.

The position offers a generous salary and benefits package. Academic rank commensurate with experience. Interested candidates should email a cover letter and CV to: **Dr. Vikram Bhise, MD, Assistant Professor, Department of Pediatrics, Child Neurology and Neurodevelopmental Disabilities; Email: vikram.bhise@rwjms.rutgers.edu**

Rutgers University is an AA/EEO employer. All applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, citizenship, disability or protected veteran status.

CNS PERSONNEL REGISTRY

NORTH CAROLINA

See ads below and at right.

CNS PERSONNEL REGISTRY

OHIO

Pediatric Neurologist/Pediatric Epileptologist

Dayton Children's Hospital, a 155-bed, freestanding children's hospital in Dayton, Ohio, is recruiting for pediatric neurologists with interest in headaches and epilepsy.

We are a group of 5 physicians and are recruiting for additional pediatric neurologists to help support our efforts to build centers of excellence for headache and epilepsy.

Dayton Children's is the only area hospital with a full-service child neurology center, and with 11,000 visits and nearly 4,000 tests annually, our department is one of the busiest in the hospital. Neurologists at Dayton Children's are assisted by three nurse practitioners and two clinical care coordinators. EEG technologists, triage nurses and office personnel complete our team. We offer all modalities of diagnostic testing including epilepsy and epilepsy monitoring services and have established neuro-rehabilitation, seizure and headache programs. We have a busy Epilepsy Monitoring Unit and an active ketogenic diet program as well as the support of 3 pediatric neurosurgeons.

Dayton Children's serves a pediatric population of 510,000 from a 20 county region of central and southwestern Ohio and eastern Indiana. A new, eight-story, 260,000-square-foot patient care tower in the center of the hospital's current campus is scheduled to open in 2017. Also, a major expansion of the Outpatient Care Center and Urgent Care, in Springboro, Ohio, will include a medical office building, a pediatric emergency department, an outpatient surgery center and a Sleep Lab.

The Wright State University Boonshoft School of Medicine department of pediatrics and its residency program are based at Dayton Children's. All of our physicians have the opportunity to hold faculty appointments at the Boonshoft School of Medicine and to teach medical students and residents. Residents in adult neurology, pediatrics, medicine/pediatrics, family practice, child psychiatry, emergency medicine, orthopedics and surgery train at Dayton Children's.

The Division of
Duke University invites
particularly those with
clinical
apply at the Assistant/Associate Professor levels.

Pediatric Neurology at
BC/BE neurologists
training in epilepsy and
neurophysiology to

Candidates are for the Clinician-Practitioner or Research tracks. The Division has a long history of excellence in clinical service, teaching, and leadership in multiple cutting edge programs and research. We seek to continue to expand our division through Pediatric Neurologists with an interest in Epilepsy, General Pediatric Neurology, Neurointensive Care, and other Child Neurology subspecialty fields. The environment at Duke fosters and supports development of clinical careers and of clinical and basic science research by the candidates. Salary and benefits are highly competitive with other institutions. Duke University Health System is an Equal Opportunity/ Affirmative Action Employer.

The Division has 12 faculty members with leading programs and multidisciplinary clinics. It is based in Duke Children's Hospital, which is an approximately 200-bed hospital. The Medical School, Hospital, and the Pediatric Neurology service have repeatedly been ranked in the top medical schools, pediatric hospitals, and pediatric neurology services in the country by US News and World Report.

Durham, North Carolina is consistently ranked very high in the Best Cities to Live In, scoring highly on schools, amenities, museums, and performing arts center, in addition to being known officially as the City of Medicine, USA. Over 230,000 residents enjoy the temperate climate, world-class dining, cultural events, and college and professional sports.

Interested individuals should contact Dr. Mohamad A. Mikati at 919-668-4073 or mohamad.mikati@duke.edu and Kayla Moore at 919-681-6270 or kayla.moore@duke.edu.

Known as the birthplace of aviation, Dayton is home to some of the best private and public schools in the state, a vibrant arts and entertainment community and a beautiful system of parks, trails and river corridors.

For additional information, contact:
Cyndy Emerson, FASPR, PHR, SHRM-CP
Physician Recruitment Manager
Dayton Childrens Hospital
1 Childrens Plaza
Dayton, OH 45404-1815
937/641-5307
emersonc@childrensdayton.org
www.childrensdayton.org

Pediatric Neurologists – Northeast Ohio

Ohio-based Akron Children's Hospital seeks Pediatric Neurologists to join its expanding Neurology Division. Akron Children's Hospital is the largest pediatric healthcare system in Northeast Ohio and is ranked among the best children's hospitals by *US News and World Report.*

This integrated healthcare delivery system includes:

- Two free-standing pediatric hospitals
- More than 900 providers, who manage 800,000+ patient visits annually
- A network of more than 80 primary and specialty care locations
- Robust research and innovation endeavors
- An American College of Surgeons certified pediatric trauma center

The successful candidates will join a dedicated team of 8 pediatric neurologists and 4 nurse practitioners who work together to satisfy the needs of the NeuroDevelopmental Science Centers (NDSC) growing patient population. The NDSC brings together the expertise of 6 pediatric specialties Developmental-Behavioral Pediatrics, Neurology, Neurosurgery, Physiatry, Neuro-psychology and Psychology to deliver quality, coordinated care to patients served.

Whether you are seeking an opportunity in a busy academic center or prefer practicing in a community setting; Akron Children's Hospital has a position for you!

These positions offer opportunities for:

- Partnership with an established team of neurologists affording exceptional work-life balance
- Active involvement in medical student and resident education; academic appointment at Northeast Ohio Medical University (NEOMED) is available and commensurate with experience
- Research and innovation available through the Rebecca D. Considine Research Institute and partnerships with NEOMED and area universities
- An attractive compensation and benefit package

Wake Forest™
Baptist Health

Pediatric Neurologist,
Department of Neurology

Join our expanding, multi-specialty, well-established and highly regarded academic Neurology Department at Wake Forest Baptist Medical Center, located in beautiful Winston-Salem, North Carolina. This open-rank, faculty opportunity is for an MD/DO who has completed a Pediatric Neurology Residency and is Board Certified or Board Eligible by the American Board of Psychiatry and Neurology. The ideal physician candidate will have a successful record of clinical excellence, research experience, leadership and a strong interest in graduate medical education. Our Pediatric Neurology team currently is comprised of six Pediatric Neurologists, including three Epileptologists and a pediatric headache expert; two Nurse Practitioners; as well as other dedicated healthcare professionals. The division also supports a competitive Pediatric Neurology Residency Program. Wake Forest Baptist Medical Center continues to be recognized as one of America's Best Hospitals by U.S. News and World Report with Neurology and Neurosurgery being ranked in the top 50. ~Equal Opportunity Employer~

Interested and qualified candidates, please submit your application online at http://www.wakehealth.edu/HR/Faculty/Current-Opportunities.htm, and key in Job ID # **9141**. For questions, contact Jill Harrell, in-house recruiter with Wake Forest Baptist Medical Center at: jeharrel@wakehealth.edu or (336) 716-1243.

OHIO continued

- Requirements include MD or DO degree, board eligibility/certification in Pediatric Neurology, and the ability to obtain an active medical license in the state of Ohio.
- Akron Childrens Hospital is set in the beautiful Cuyahoga Valley, just minutes south of Cleveland. From major league attractions to small-town appeal, the greater Akron area has something for everyone. The area is rich in history and cultural diversity, and provides a stimulating blend of outstanding educational, cultural and recreational resources. This four-season community offers outdoor enthusiasts more than 40,000 acres of parks for year-round enjoyment. Northeast Ohio has become a premiere destination to work, live, play, shop and dine.

Interested candidates should contact Jane Hensley, Physician Recruiter at 330/543-3015 or jhensley@chmca.org. To learn more, visit our website at www.akronchildrens.org.

CNS PERSONNEL REGISTRY

OKLAHOMA

Assistant Professor

The Department of Neurology at the University of Oklahoma (OU) College of Medicine is seeking a BC/BE neurologist for a full-time faculty position in Pediatric Epilepsy at the level of Assistant Professor. The candidate must be eligible for an Oklahoma state medical license. OU child neurologists primarily see inpatients at The Children's Hospital at OUMC and outpatients in the OU Children's Physicians Building. There are plans to begin a child neurology residency in the near future. Deepti Chrusciel, MD, is the Chief of OU Child Neurology. The OU Neurology Epilepsy service is provided by a team of physicians and advanced practice providers. Cherie Herren, M.D., a pediatric epileptologist, is Director of the OU Medical System Epilepsy Center, a Level 4 Epilepsy Center that includes 4 adult epilepsy monitoring unit (EMU) beds and 4 child EMU beds. Candidate will share EMU/inpatient EEG call with adult and pediatric epileptologists. An advanced practice provider admits adult and child EMU patients and manages their medical aspects of care.

Requirements:

- Must have ability to read routine, prolonged, and video EEGs and utilize tele-EEG system
- Significant experience and confidence with epilepsy surgery is much preferred
- A commitment to the advancement of the educational and clinical achievements of the department is necessary
- An interest in research is preferable
- Open to MD or DO physicians
- Candidates requiring visa sponsorship will be considered on a case-by-case basis
- Prefer a physician with less than 6 years of experience post-fellowship
- Board eligibility or certification is required
- Must have completed child neurology training at an ACGME-certified institution
- Must have completed an ACGME fellowship in either epilepsy or neurophysiology with emphasis on EEG

Website:
www.ouhsc.edu

Contac:
David Gordon
david-gordon@ouhsc.edu

CNS PERSONNEL REGISTRY

PENNSYLVANIA

Developmental Pediatrician/Pediatric Neurologist Geisinger ADMI

Seeking Talented & Motivated Developmental Pediatricians & Child Neurologists

World class healthcare in the heart of Pennsylvania

Join a growing multidisciplinary clinical and research team at Geisinger's Autism & Developmental Medicine Institute (ADMI) in beautiful Lewisburg, Pa. and other sites in central Pennsylvania. In collaboration with nearby Bucknell University, ADMI's vision is to expand and integrate clinical services, research, education, and family support for children and adults with autism and other neurodevelopmental disorders.

At ADMI, physicians:

- Provide clinical care as part of a dynamic, multidisciplinary developmental medicine, psychology, neuroscience, and genomics team
- Work within a busy, stimulating clinical and research environment serving individuals with diverse neurodevelopmental challenges
- Develop clinical expertise and research interests through specialty clinics for fragile X, Smith- Magenis, 22q11.2 deletion, and other genetic syndromes
- Enjoy protected time to pursue research projects and clinical trials related to developmental brain disorders
- Teach residents, medical students, and trainees in allied disciplines through established affiliations between Geisinger and regional academic institutions
- Are respected and supported colleagues within Geisinger's nationally-recognized developmental medicine institute

About Geisinger
Geisinger fosters an atmosphere of clinical excellence while offering the best of life in small-town America good schools, safe neighborhoods with affordable housing and a wealth of cultural and recreational activities. The surrounding natural beauty provides opportunities for fishing, skiing, canoeing, hiking and mountain biking. Urban life is easily accessible, with New York, Baltimore, Philadelphia or Washington DC just an afternoon's drive away.

Discover for yourself why Geisinger has been nationally recognized as a visionary model of integrated healthcare.

For more information, visit GeisingerADMI.org or contact:
ADMI Medical Director, Thomas D.

Challman, MD
c/o Grace Lowry, Professional Staffing
Tel: 570/214-6918
Email: gblowry@geisinger.edu.
Web: geisingerADMI.org
Facebook: fb.me/GeisingerADMI
Twitter: @GeisingerADMI
Contact Us: gblowry@geisinger.edu

Child Neurologist – Eastern Pennsylvania

Lehigh Valley Health Network (LVHN) Children's Hospital is seeking a BC/BE pediatric neurologist to join our growing Department of Pediatrics which now includes physicians in 28 specialties, a large general pediatric group and dedicated hospitalists and intensivists. Lehigh Valley Health Network is located 1 hour north of Philadelphia and 1.5 hours west of NYC. The Children's Hospital has a 30-bed inpatient unit, a 40-bed Level III NICU, 8-bed Level II PICU, Level II pediatric trauma center and 12-bed pediatric ER. LVHN offers a cohesive work environment, a busy clinical practice and the opportunity to be involved in teaching pediatric residents and medical students, and an academic appointment at the University of South Florida. LVHN is a nationally recognized physician-led network with a medical staff of 1,200, more than half of whom are employed. The area is one of the fastest growing in the state of Pennsylvania due to urban redevelopment, suburban affordability and outstanding public and private schools.

Contact: Karen Fay
Email: karen_r.fay@lvhn.org

Pediatric Neurologist

Penn State Hershey Children's Hospital is seeking a BC/BE Pediatric Neurologist to join the Division of Pediatric Neurology. The Division, led by Dr. William Trescher, consists of 6 pediatric neurologists, a nurse practitioner, 2 nurse specialists, 2 nurse coordinators, and a dietician. The Penn State Hershey Children's Hospital and The Penn State Hershey Medical Center are the major teaching hospitals for the Penn State University College of Medicine. The Division of Pediatric Neurology is in the Department of Pediatrics with a strong affiliation with the Department of Neurology. The Department of Pediatrics has over 150 general pediatricians and pediatric sub-specialists providing care in the full range of pediatric care in the Penn State Hershey Children's Hospital. The Department of Neurology is comprised of 18 general and subspecialty neurologists and a Neurology Residency Program. The medical center has 3 pediatric neurosurgeons within the department of Neurosurgery.

Candidates with an interest in general clinical pediatric neurology, those with subspecialty training, and those with a research focus are encouraged to apply. The position can be tailored to the interests and background of the candidate. Responsibilities include outpatient evaluations, inpatient consultation, and on-call coverage limited to pediatric neurology. The Penn State Hershey Children's Hospital has a very strong hospitalist service to provide continuity and coordination of inpatient care in a collaborative manner. Hershey is located in South Central Pennsylvania and it offers an outstanding life style. Hershey is within 2 hours driving to Baltimore/Washington, DC and Philadelphia and 3 hours from New York City.

For additional information about the position, please contact Patty Shipton, FASPR, Physician Recruiter, pshipton@hmc.psu.edu.

The Penn State Milton S. Hershey Medical Center is committed to affirmative action, equal opportunity and the diversity of its workforce. Equal Opportunity Employer Minorities/ Women/Protected Veterans/Disabled. All individuals (including current employees) selected for a position will undergo a background check appropriate for the positions responsibilities.

CNS PERSONNEL REGISTRY

SOUTH CAROLINA

Assistant/Associate/Professor Pediatric Neurophysiologist/ Epileptologist

Pediatric Neurophysiologist/ Epileptologist

The Department of Pediatrics at the Medical University of South Carolina (MUSC) seeks an additional pediatric neurophysiologist/epileptologist at the assistant or associate professor level. Candidates must be eligible or certified by the ABPN with Special Qualification in Child Neurology and must have completed an ACGME-approved fellowship in Clinical Neurophysiology or Epilepsy and be eligible or certified in Clinical Neurophysiology and/or Epilepsy. Candidates must be a US citizen or permanent US residents who are eligible for medical licensure in South Carolina.

The current Division of Pediatric Neurology includes four full-time faculty members and two part-time faculty members along with two nurse practitioners. Two faculty members are certified in Clinical Neurophysiology and responsible along with one of the nurse practitioners for the Pediatric Epilepsy Program and the Pediatric Epilepsy Monitoring Unit. The Division provides the full range of both inpatient and outpatient clinical services. MUSC's Comprehensive Epilepsy Center, is designated a Level IV epilepsy center, the highest designation offered by the National Association of Epilepsy Centers. The center offers multidisciplinary diagnostic and treatment services to patients from infancy to adulthood. There are two Pediatric Neurosurgeons with experience in epilepsy surgery. MUSCs Neurophysiology Lab has a complete combination of accredited labs in EEG, EMG, Intraoperative Monitoring, and Intracranial and Extracranial Vascular Imaging. Specialty services such as speech language pathology and neuropsychology are available, as well as diagnostic services such as inpatient and outpatient video EEG monitoring.

MUSC is the premier tertiary care medical center and academic teaching hospital in South Carolina located in Charleston, a beautiful and historic but cosmopolitan city on the Atlantic Coast. MUSC and the Department of Pediatrics both have an impressive record of recent growth. A new Children's Hospital, currently in the design phase and scheduled to open in 2019, will offer state of the art tertiary and quaternary services. The Charleston community is quite family-friendly with excellent neighborhoods and schools, access to numerous cultural and outdoor activities, and easy transportation.

SOUTH CAROLINA continued

Interested candidates should email a letter of interest and curriculum vitae to Thomas Koch, MD, Chief, Division of Pediatric Neurology; email: kocht@musc.edu.

Medical University of South Carolina is an equal employment/affirmative action employer.

Pediatric Neurologist

This Place Is Amazing
So is the difference YOU can make
Pediatric Neurologist
Greenville, SC

Greenville Health System (GHS), the largest healthcare provider in South Carolina, is currently seeking a General Pediatric Neurologist to join our dynamic team.

This practice has an approximate volume of 1,600 patients annually. This opportunity provides a mix of 80% outpatient with 20% inpatient as well as teaching responsibilities with pediatric residents, 3rd and 4th year medical students, and developmental/behavioral fellows. The outpatient practice offers EEGs and NCVs, performed by certified technicians.

GHS employs 15,000 people, including 950+ physicians on staff. Our system includes clinically excellent facilities with 1,662 beds on 7 campuses. We currently host 15 residency and fellowship programs and were home to one of the nations newest medical schools University of South Carolina School of Medicine – Greenville.

The Children's Hospital includes a 12 bed PICU, 79 bed Level-3 NICU, and a dedicated Pediatric ER. With experienced doctors representing more than 35 pediatric specialties, GHS offers more comprehensive "whole child" care than many of the country's major medical centers.

Greenville, South Carolina is a beautiful place to live and work and the GHS catchment area is 1.3 million people. Greenville is located on the I-85 corridor between Atlanta and Charlotte, and is one of the fastest growing areas in the country. Ideally situated near beautiful mountains, beaches and lakes, we enjoy a diverse and thriving economy, excellent quality of life and wonderful cultural and educational opportunities.

We offer great compensation and benefit plans, malpractice insurance, and full relocation packages.

Qualified candidates should submit a letter of interest and CV to: Tina Owens, In-House Recruiter, towens2@ghs.org, 864/797-6240.

GHS does not offer sponsorship at this time. EOE

CNS PERSONNEL REGISTRY

TEXAS

Child Neurology & Headache Medicine Opportunity

On behalf of Cook Children's Medical Center and Health Care System located in Ft. Worth, TX, MillicanSolutions, the leader in physician executive search for childrens hospitals, is pleased to inform you of the inception of a national search for Child Neurology candidates with a special interest in Headache Medicine.

Cook Children's Medical Center is a not-for-profit, free standing, 457-bed quaternary care pediatric hospital that is consistently ranked by *US News and World Report*. Although not academically affiliated, opportunities available to pursue clinical research with support including campus IRB, grant writing, research nurse, and a dedicated PhD statistician. Opportunity for faculty affiliation with the University of North Texas Health Science Center.

Cook Children's is committed to securing a 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.

Other Programmatic Highlights:

- Established comprehensive headache program
- Joining group of 11-Pediatric Neurologists. Enjoy support from 8-Nurse Practitioners, 4-Pediatric Neurosurgeons and 3-Neuropsychologists
- 26-bed state-of-the-art Neuro-Rehabilitation unit located next to the Neurosciences offices
- Access to 10-bed epilepsy monitoring unit and active epilepsy surgery program
- First hospital in the country to establish dedicated Pediatric DBS program and to have Clearpoint Intraoperative iMRI system
- Anticipate 25% focus on general neurology and 75% headache medicine
- In office biofeedback and IV infusion program
- More than 25,000 patient encounters, 1100 Botox procedures in 2015; 250 intrathecal pumps, 90 DBS implants
- Medical student teaching involvement
- Earning potential above the 90th percentile of MGMA

We would appreciate the opportunity to confidentially discuss this opportunity with you and share in greater detail why we feel it is the top position available nationally.

Please contact Marcel Barbey at 817/707-9034 or via email at marcel@MillicanSolutions.com for more information. All inquiries will remain confidential without your prior approval. Cook Childrens Healthcare System is an EEO/AA Employer M/F/D/V.

CNS PERSONNEL REGISTRY

VIRGINIA

Child Neurologist

The Department of Neurology at the University of Virginia seeks applicants for a Child Neurologist at the Assistant, Associate or Full Professor rank (tenure eligible or tenure ineligible). The incumbent spearheads the pediatric neurology residency training program and participates in caring for children with neurological disorders in the inpatient and outpatient settings. Rank and tenure status are dependent upon qualifications and experience.

Candidates must have an MD and be board-certified or board-eligible in Neurology at the time of hire with special qualifications in child neurology. Candidates with prior experience in Graduate Medical Education (ACGME

or non-ACGME accredited) training programs in Pediatric Neurology as a training program director or associate director are preferred. To be considered for the tenure-eligible position, candidates must have a strong interest in a career in academic medicine and demonstrate scholarship and excellence in two domains consistent with the requirements for tenure in the School of Medicine.

The University of Virginia is located in Charlottesville, a setting with natural beauty. The Division of Pediatric Neurology is a strong clinical and research division, composed of senior and junior faculty with diverse interests spanning epilepsy, degenerative disorders, neuromuscular disease, neuro-oncology, neonatal neurology, concussion and headache. There is strong collaboration with its disease-specific programs and multidisciplinary centers. Additionally, there are strong core programs/facilities to support translational and clinical research.

To apply visit https://jobs.virginia.edu and search on Posting Number 0617974 or visit https://jobs.virginia.edu/applicants/Central?quickFind=78087 Complete a Candidate Profile online, attach a cover letter, curriculum vitae, and contact information for three references.

Position will remain open until filled.

For additional information about the position, please contact Andrew Southerland via email at AS5EF@hscmail.mcc.virginia.edu.

For questions regarding the application process, please contact Greg Haskins at 434/924-2963 or via email at gph3z@virginia.edu.

The University of Virginia is an equal opportunity and affirmative action employer. Women, minorities, veterans, and persons with disabilities are encouraged to apply.

Apply Here: http://www.Click2Apply.net/9r4whhw9k8

Child Neurologist, Faculty

Assistant, Associate or Full Professor

The Department of Neurology at the University of Virginia seeks applicants for a Child Neurologist at the Assistant, Associate or Full Professor rank (tenure eligible or tenure ineligible). This position will participate in caring for children with neurological disorders in the inpatient and outpatient settings. Rank and tenure status are dependent upon qualifications and experience.

Candidates must have an MD and be board-certified or board-eligible in Neurology at the time of hire with special qualifications in child neurology. To be considered for the tenure-eligible position, candidates must have a strong interest in a career in academic medicine and demonstrate scholarship and excellence in two domains consistent with the requirements for tenure in the School of Medicine.

The University of Virginia is located in Charlottesville, a setting with natural beauty. The Division of Pediatric Neurology is a strong clinical and research division, composed of senior and junior faculty with diverse interests spanning epilepsy, degenerative disorders, neuromuscular disease, neuro-oncology, neonatal neurology, concussion and headache. There is strong collaboration with its disease-specific programs and multidisciplinary centers. Additionally, there are strong core programs/facilities to support translational and clinical research.

To apply visit https://jobs.virginia.edu and search on Posting Number 0619218 or visit https://jobs.virginia.edu/applicants/Central?quickFind=79688.

Complete a Candidate Profile online, attach a cover letter, curriculum vitae, and contact information for three references.

Position will remain open until filled.

For additional information about the position, please contact Andrew Southerland via email at AS5EF@hscmail.mcc.virginia.edu.

For questions regarding the application process, please contact Greg Haskins at 434/924-2963 or via email at gph3z@virginia.edu.

The University of Virginia is an equal opportunity and affirmative action employer. Women, minorities, veterans, and persons with disabilities are encouraged to apply.

Apply Here: http://www.Click2Apply.net/v3b82txdxt

Child Neurologist

We're seeking BE/BC Child Neurologists for Bon Secours Medical Group at Bon Secours St. Mary's Hospital in Richmond, Virginia.

Bon Secours St. Mary's is a highly respected, mission-based Catholic hospital in one of the United States' oldest and most historic cities. This exciting opportunity will allow specialists a very busy clinical practice in a fantastic city that offers second-to-none quality of life for individuals and families. You'll join a medical group that has grown dramatically over the last six years and offers the only Pediatric Emergency Medicine department in the city staffed with fellowship-trained Pediatric Emergency Medicine physicians. With an unwavering commitment to helping those in need, Bon Secours St. Mary's prides itself on delivering compassionate care for all.

You'll be based in an unbeatable location situated less than a two-hour drive from Washington, D.C.; beautiful coastlines and beaches; and the scenic Blue Ridge and Allegheny mountains as well as Shenandoah National Park. Geographically, this is the best of all worlds. Richmond neighborhoods offer everything from neoclassical mansions and stately Colonial homes to restored row houses and new construction. Public and private schools are of exceptional quality, and the region is home more than 10 colleges and universities, making it a magnet for the arts, music, theater, sports and recreation. With a climate that allows you to experience the beauty of all four seasons, you can enjoy the area's botanical gardens, walking trails and stunning parks.

Despite all of its modern flair and sophistication, Richmond is defined by its fascinating history. It's home to a slew of excellent museums, Civil Warera estates, monuments and cemeteries. The city's downtown is a foodie's delight and offers a historic district with top-notch restaurants and nightlife. The James River runs directly through the city providing the opportunity for rides on an antique paddlewheel steamer, plus tubing, kayaking and fishing.

With a competitive compensation package and an academic affiliation with one of the nation's most prestigious public universities with a superior reputation for research, this is an opportunity not to be missed!

Head, Division of Pediatric Neurology
University of Washington, Seattle, WA

The Department of Neurology at the University of Washington School of Medicine and Seattle Children's Hospital are seeking an outstanding child neurologist to lead the Division of Pediatric Neurology. The Division presently has 21 faculty members who provide clinical services at Seattle Children's Hospital and its regional clinics in western and central Washington, the NICU at the University of Washington Medical Center, and through outreach clinical sites in Montana and Alaska. Together with the University of Washington Departments of Pediatrics and Neurology, the Division operates ld neurology residency training program, with three trainees per year, as well as a clinical neurophysiology fellowship program. Through the Seattle Children's Research Institute, pediatric neurology faculty conduct research in several areas including epilepsy, neurogenetics, stroke, mitochondrial disease, neurotoxicology and behavioral neurology. Seattle has a rich neuroscience environment and collaborative basic science, translational and clinical research opportunities are available through the University of Washington, the Fred Hutchinson Cancer Research Center and the Allen Brain Institute.

Applicants should have strong clinical skills in general child neurology or in a recognized subspecialty, experience as a neurological educator, and a portfolio of mature scholarship in basic or clinical neuroscience research. Preferred applicants will have had previous administrative experience in managing clinical and academic programs, training in process improvement or patient safety, and fostering the success of others.

This is a full-time appointment at the Associate or Full Professor rank (without tenure) in either the clinician-educator or clinician-scientist academic pathway. After arrival, the successful applicant will be eligible for appointment to the Herman and Faye Sarkowsky Endowed Chair of Child Neurology at the University of Washington. Requirements include an MD or DO or foreign equivalent degree, eligibility for medical licensure in the State of Washington, and certification by the American Board of Psychiatry and Neurology in Neurology with Special Qualification in Child Neurology.

In order to be eligible for University sponsorship for an H-1B visa, graduates of foreign (non-U.S.) medical schools must show successful completion of all three steps of the U.S. Medical Licensing Exam (USMLE), or equivalent as determined by the Secretary of Health and Human Services.

Applicants should send a letter of interest and their curriculum vitae to the Search Committee Chair:

Sandra Juul, M.D., Ph.D.
1959 NE Pacific St, Box 356320
Department of Pediatrics, University of Washington
Seattle, Washington, 98195
sjuul@uw.edu

This position is open until filled. The University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, protected veteran or disabled status, or genetic information. At the University of Washington, diversity is integral to excellence. We value and honor diverse experiences and perspectives, strive to create welcoming and respectful learning environments, and promote access, opportunity and justice for all. All University of Washington faculty engage in teaching, research and service.

VIRGINIA continued

For complete details and confidential consideration, please contact Glenda Smith, Principal, Pediatric Search Partners, at glenda@pediatricsearchpartners.com, or by phone at 877/440-3832.

Pediatric Neurologist Position Available

We are seeking a seventh full-time, board certified/eligible child neurologist. Joining our practice provides these unique opportunities:

Owned by its physician members
(140+ full time pediatric subspecialists)

- Responsible for pediatric resident and medical student teaching
- Academic advancement in clinical, research and teaching pathways
- Inpatient services in modern free standing tertiary care pediatric hospital
- Excellent compensation package (with partnership opportunity)
- Opportunity to develop subspecialty interests within the division
- Research support is available for both clinical and bench efforts

Tidewater Virginia offers a wonderful coastal climate. Situated on one of the greatest natural harbors in the world and with some of the best beaches in the US, we have easy water access, a myriad of golf courses, an excellent local public and private education system, accessible and elite Virginia institutions of higher education (UVA, Virginia Tech, ODU, NSU, W&M, et al.), in addition to our recognized art museum, symphony, opera, zoo and botanical gardens.

Visit these sites for more information about Norfolk:

- Virginia.org
- VEERmag.com
- CSGdocs.com
- VisitNorfolkToday.com

Division Members

- Sarah Chagnon – Pittsburgh, Neuro-Developmental
- Matt Frank – BU/BCH/HU, clinical research, founding partner
- Ingrid Loma-Miller – Pittsburgh (moving to full-time MS practice in Tidewater)

- Ralph Northam – WRNMMC, founding partner and lieutnenant governor of Virginia
- Dayna Perkowski – Vanderbilt, epilepsy
- Crystal Proud – Stanford, neuro-muscular
- Michael Strunc – Children's Hospital of Denver; Duke, sleep
- Svinder Toor – MCV, epilepsy, founding partner

To learn more about this position, please contact:
L. Matthew Frank, MD or J.D. McCoy, MHA at 757/668-9686 or email Matthew.Frank@chkd.org.

For additional position information, please visit the Children's Specialty Group website at CSGDOCS.com

Also :
Children's Hospital of The King's Daughters
CHKD.org
Eastern Virginia Medical School
EVMS.edu

CNS PERSONNEL REGISTRY

WASHINGTON

See ad at left.

Director, Pediatric Clinical Neurophysiology Laboratory, University of Washington

The University of Washington School of Medicine and Seattle Children's Hospital are seeking an outstanding pediatric neurologist with subspecialty training in clinical neurophysiology to direct the Pediatric EEG Laboratory at Seattle Children's Hospital.

The Division of Pediatric Neurology has 21 faculty members (7 of whom have subspecialty training in clinical neurophysiology). Over 3000 studies per year are conducted by the Seattle Children's Hospital EEG Laboratory. Applicants should have strong clinical skills in pediatric epilepsy, clinical neurophysiology and general pediatric neurology and at least five years of clinical experience following completion of fellowship training. An interest in signal processing, application of new technologies and integration of functional imaging with neurodiagnostics is desirable. Administrative experience in managing a clinical neurophysiology laboratory is desirable.

This is a full-time appointment at the Assistant Professor rank (without tenure) in the clinician-educator academic pathway, but candidates with exceptional qualifications may be considered for appointment at the rank of Associate Professor (without tenure) or Professor (without tenure). Requirements include an MD or DO or foreign equivalent degree, eligibility for medical licensure in the State of Washington, and certification by the American Board of Psychiatry and Neurology in Neurology with Special Qualification in Child Neurology. Applicants must also have had fellowship training in clinical neurophysiology which satisfies the board eligibility requirements of the American Board of Clinical Neurophysiology, or fellowship training in clinical neurophysiology (with special emphasis in electroencephalography and evoked potential testing) which satisfies the board eligibility requirements of the American Board of Psychiatry and Neurology for the subspecialty certificate in clinical neurophysiology.

In order to be eligible for University sponsorship for an H-1B visa, graduates of foreign (non-U.S.) medical schools must show successful completion of all three steps of the U.S. Medical Licensing Exam (USMLE), or equivalent as determined by the Secretary of Health and Human Services.

Applicants should send a letter of interest and their curriculum vitae to:

Sidney M. Gospe, Jr., M.D., Ph.D.
Herman and Faye Sarkowsky
Endowed Chair
Head, Division of Pediatric Neurology
Seattle Children's Hospital
4800 Sand Point Way NE
MB.7.420
Seattle, WA 98105
206/987-2078
sgospe@uw.edu

Drs. Sidney Gospe, Heidi Blume and Russell Saneto will be attending the CNS Annual Meeting in Vancouver and may be contacted at the meeting for more information.

This position is open until filled. University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, protected veteran or disabled status, or genetic information. University of Washington faculty engage in teaching, research and service.

Pediatric Neuromuscular/EMG Specialist – University of Washington

The University of Washington School of Medicine and Seattle Children's Hospital are seeking an outstanding pediatric neurologist with expertise in neuromuscular disorders and electrodiagnostic medicine (EMG) to join an expanding program in the Department of Neurology, Division of Pediatric Neurology. This is a full-time appointment at the Assistant Professor rank (without tenure) in the clinician-educator academic pathway, but candidates with exceptional qualifications may be considered for appointment at the rank of Associate Professor (without tenure) or Professor (without tenure). Requirements include an MD or DO or foreign equivalent degree, eligibility for medical licensure in the State of Washington, and certification by the American Board of Psychiatry and Neurology in Neurology with Special Qualification in Child Neurology, as well as certification in Neuromuscular Medicine and/or Electrodiagnostic Medicine or foreign equivalent. In order to be eligible for University sponsorship for an H-1B visa, graduates of foreign (non-U.S.) medical schools must show successful completion of all three steps of the U.S. Medical Licensing Exam (USMLE), or equivalent as determined by the Secretary of Health and Human Services.

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WASHINGTON continued

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CNS PERSONNEL REGISTRY

WEST VIRGINIA

BE/BC Child Neurologists

West Virginia University School of Medicine, Department of Pediatrics is seeking BE/BC Child Neurologists to join an expanding division. Successful candidates must have an MD, MD/PhD or DO degree (the employer accepts foreign educational equivalent) and be eligible to obtain an unrestricted West Virginia medical license.

Faculty rank and salary will be commensurate with credentials. In addition to excellent patient care, the faculty member will have opportunities to teach pediatrics residents and medical students.

WVU Medicine maintains a Level IV Comprehensive Epilepsy Program. The Epilepsy Center includes hardwired video-EEG monitoring units for both adults and pediatrics. The facility also features neuroimaging support including spectroscopic MRI and quantitative PET scans. WVU Medicine Children's consists of general pediatric beds, newly expanded Level III NICU, Pediatric Intensive Care Unit, a step down unit, and a Maternal and Infant Care Center. Research potential exists with various entities including the WVU Klingberg Child Development Center, WVU Advanced Imaging Center and the Blanchette Rockefeller Neuroscience Institute.

U.S. News & World Report has ranked West Virginia University Hospitals #1 in the state for the last several years. WVUH provides the most advanced level of care available to the citizens of West Virginia and bordering states and is currently undergoing planning with the intention of building a new state-of-the-art Children's Hospital within the next five years. WVU Medicine has also opened a three story, 110,000 square foot ambulatory care facility to help address the growing demand for services and has broken ground on an ambulatory surgery center adjacent to the new clinic. The Robert C. Byrd Health Sciences Center has a full complement of academic programs in the clinical and basic sciences.

Morgantown is consistently rated as one of the best small metropolitan areas in the country for both lifestyle and business climate. The area offers the cultural diversity and amenities of a large city in a safe, family-friendly environment. There is also an excellent school system and an abundance of beautiful homes and recreational activities.

Build your legacy as you serve, teach, learn and make a difference from day one. To learn more, visit http://wvumedicine.org/childrens/ or submit your CV directly to Callista McNair, Sr. Human Resources Generalist Physician Recruitment at cmcnair@wvumedicine.org.

WVU is an AA/EO employer Minority/Female/Disability/Veteran - and is the recipient of an NSF ADVANCE award for gender equity.

CNS PERSONNEL REGISTRY

WISCONSIN

Clinical Neurophysiology Fellowship

Clinical Neurophysiology Fellowship 2017

We have an unexpected opening for a 2017 Clinical Neurophysiology Fellowship at the Medical College of Wisconsin & Children's Hospital of Wisconsin. The strengths of our program are the broad exposure and volume of neuromuscular disorders, the size and complexity of our epilepsy population, a thriving surgical epilepsy program, a MEG facility, state of the art stereo EEG, and one of the largest full time faculty in pediatric neurophysiology in the country, the technology depth of our faculty, and the unprecedented institutional support. There are eight clinical pediatric neurophysiology faculty in pediatrics.

The fellowship program can be customized to meet a candidates career trajectory including but not limited to; Electroencephalography EEG, Diagnostic electromyography (EMG), Single-fiber electromyography (SFEMG), Critical Care monitoring (CCM), Magnetoencephalography (MEG), Evoked potentials (EP) studies, Sleep Studies (PSG and MSLT), Electro diagnostic movement disorder assessment, Muscle and nerve biopsies, testing of the autonomic functions.

Pediatric Neurophysiology Fellowship application requirements: CV, personal statement, three letters of recommendation. We can accommodate off cycle candidates as well.

For more information, or to apply for a position in the fellowship, please contact Kurt Hecox at khughes@mcw.edu or call 414/337-8702.

Clinical Epilepsy Fellowship

We have an opening for a 2017 Clinical Epilepsy Fellowship at Childrens Hospital of Wisconsin.

- The strengths of our program are:
- Broad exposure and volume of pediatric epilepsy
- Technology depth of our facility
- Seven pediatric epileptologists
- Unprecedented institutional support

Our program is one of the six largest in the country based upon the number of patients seen and monitored, and the hospital has just completed construction of a new state of the art unit.

The fellowship program can be customized to meet a candidates career trajectory including but not limited to; intracranial and extracranial monitoring, intraoperative monitoring, MEG, advanced signal processing application and advanced neuroimaging techniques.

Electives are available in sleep and neurogenetics, and we offer mentorship for clinical and basic science research opportunities throughout the year.

Candidates are able to select one or two year programs.

Pediatric Epilepsy Fellowship application requirements: CV, personal statement, three letters of recommendation. We able to accommodate off cycle candidates.

For more information, or to apply for a position in the fellowship, please contact Kurt Hecox at khughes@mcw.edu or call 414/337-8702.

Pediatric Epilepsy and General Pediatric Faculty Positions

The Department of Neurology at the University of Wisconsin School of Medicine and Public Health seeks fellowship-trained BC/BE pediatric epileptologists and general pediatric neurologists to join our expanding Pediatric Neurology Program and Comprehensive Epilepsy Program.

The position includes opportunities for clinical, research, and teaching activities in an academic environment with pediatric and adult epileptologists, general pediatric neurologists, faculty in other services including pediatrics, neuropsychology, neurosurgery, neuroradiology, clinical neuro-physiology and basic science research faculty.

Please send curriculum vitae and the names of at least three references to Kathleen Shannon, M.D., Chair, Department of Neurology, University of Wisconsin School of Medicine and Public Health, Medical Foundation Centennial Building, 1685 Highland Ave., Madison, WI 53705. Submission of application information online is preferred; please forward to applications@neurology.wisc.edu .

Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Wisconsin Caregiver law applies. UW-Madison is an Affirmative Action/ Equal Opportunity Employer.

Pediatric Movement Disorder Specialist

The Pediatric Neurosciences Center at Children's Hospital of Wisconsin (CHW) and The Medical College of Wisconsin is recruiting a Movement Disorder specialist to continue our programmatic expansion. Many collaborative research opportunities are also available to interested applicants. CHW is one of the largest free standing children's hospitals in the United States. There are a large number of patients who have already been identified with diverse and challenging movement disorders, and an institutional commitment to growing that group. The group has grown rapidly and currently has ten faculty members with the expectation of expanding to fifteen in the near future. The metro Milwaukee area provides a great quality of living and school systems as well. Please contact Dr. Kurt Hecox, Section Chief, at 414/337-8702 with any questions or email your CV to Kimberly Hughes khughes@mcw.edu

Pediatric General Neurology

Children's Hospital of Wisconsin (CHW) and The Medical College of Wisconsin are expanding the Pediatric Neurology program. We have openings for three more General Pediatric Neurologists. A major institutional commitment has been placed on the expansion of the Pediatric Neurosciences Center, including a beautiful new wing of the hospital. The population of pediatric neurology patients is large, diverse, and challenging in our facility. The group has built a collaborative relationship with the intensive care unit teams and the advanced imaging group. CHW is one of the largest free standing childrens hospitals in the United States. The group currently has ten faculty members, seven advanced practice providers and a pediatric neurology training program (6 residents). The metro Milwaukee area provides a great quality of living and school systems as well.

Please contact Dr. Kurt Hecox, Section Chief, at 414/337-8705 with any questions or email your CV to Kimberly Hughes khughes@mcw.edu

CNS PERSONNEL REGISTRY

OTHER

Physician Reviewer

MAXIMUS Federal Services seeks licensed physician consultants to review health care claim denials to determine if the denial is appropriate. Review is performed in your spare time; materials are delivered to you by secure electronic transmission. This is purely a desk review (no patient contact is required); all work is reimbursed at competitive rates. Requirements are: an active Medical License, ABMS recognized board certificate, active clinical practice a minimum of 24 hours weekly. Expertise in autism and developmental disabilities highly desired.

For more information please email stateappealswest@maximus.com

Child Neurology Society
1000 West Cty Rd. E, Suite 290
St. Paul, MN 55126

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- Tote Bags

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- Wednesday Welcome Reception

Thanks to the following for their continued support of awards presented at the CNS Annual Meeting

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- Hower Award Lecture

Blue Bird Circle
- CNS/PCN Blue Bird Circle Training Director Award