

13th Annual Pediatric Neuroscience Update

with an all-day Saturday
Mini-Symposium on Pediatric Neurogenetics

Presented by
the Medical University of South Carolina
Department of Neurosciences
Office of Continuing Medical Education

March 28 – 29, 2014
East Beach
Conference Center
Kiawah Island Resort
Kiawah Island, SC



13th Annual Pediatric Neuroscience Update

March 28 – 29, 2014 • Kiawah Island Resort, SC

Credit Designation

Physicians: The Medical University of South Carolina designates this live activity for a maximum of *15.0 AMA PRA Category 1 Credit(s)*TM. Physicians should claim only credit commensurate with the extent of their participation in the activity.

Nursing Credit: Most states accept CMEs that apply to a specific nursing specialty as nursing continuing education. Please check with your respective State Board of Nursing to ascertain the equivalent number of contact hours offered for *15.0 AMA PRA Category 1 Credit(s)*TM.

All Participants: The Medical University of South Carolina will award 1.5 CEUs (15.0 contact hours) for full time attendance. (1 contact hour equals .1 CEU)

PLEASE NOTE: You now receive your CME and CEU credits online! After the conference, you will be emailed instructions and a link to claim your credit online and print your credit certificate. On the registration form, please provide the email address that you actively use to ensure that you receive these important emails.

Information

For more information, please call the Office of CME toll free at 1-866-637-6835 or directly at 843-876-1925 or you may fax your questions to 843-876-1931.

You may also visit our website, www.musc.edu/cme

Accommodation Information



A block of one-bedroom villas has been reserved at the Kiawah Island Golf Resort. To ensure a villa at the established conference rate of \$175 for a one-bedroom scenic view villa, call the resort at 843-768-2121 or toll free 1-800-654-2924 by February 25, 2014. Identify yourself as a participant in the MUSC Pediatric Neuroscience Conference. Kiawah has extended the group rate for 2 days prior to and 2 days after the official meeting dates. A resort service fee of 8% per villa per day will be applied to the daily rates for unlimited local phone calls, credit card access calls, toll free access calls, in room coffee, the Kiawah Island shuttle service, and scheduled island-wide transportation. Reservations

received after February 25, 2014 will be accommodated on a space and rate availability basis only. A deposit equal to one night's stay is required to hold each reservation. The deposit is refundable if cancellation notice is received by the resort at least fourteen (14) days prior to arrival and a cancellation number is obtained. Check out time is 10:30 am.

Beautiful Kiawah Island

Kiawah Island is... Ten miles of wide, immaculate, ocean beach on which one might walk or cycle for hours without interruption. The beach is complemented by the island's river, meandering lagoons, and pristine marshlands. One of the nation's top ten beaches. AAA Four Diamond Rated accommodations. Nine Dining Options. An endless list of activities scheduled for all ages. Golf and tennis in a setting you'll find nowhere else. Conference sessions will be held in the **East Beach Conference Center**.

13th Annual Pediatric Neuroscience Update

March 28 – 29, 2014 • Kiawah Island Resort, SC

Pediatric Neuroscience Co-Directors

Kenton R. Holden, MD

Professor
Departments of Neurosciences and Pediatrics
Medical University of South Carolina
Senior Clinical Research Neurologist
Greenwood Genetic Center, Greenwood, South Carolina

Gigi Smith, PhD, APRN, CPNP

Assistant Professor
College of Nursing, Department of Pediatrics, &
Comprehensive Epilepsy Center
Department of Neurosciences
Medical University of South Carolina

Conference Faculty

Leonardo Bonilha, MD, PhD

Assistant Professor
Department of Neurosciences
Medical University of South Carolina

Amy-Lee Bredlau, MD

Assistant Professor
Department of Pediatrics
Medical University of South Carolina

Jane M. Charles, MD

Associate Professor of Pediatrics
Division of Developmental-Behavioral
Pediatrics
Department of Pediatrics
Jeffrey Edwin Gilliam Endowed Chair
for Neurodevelopmental Disabilities
Medical University of South Carolina

Neena Champaigne, MD

Assistant Clinical Geneticist
Director of Metabolic Treatment
Program
Co-Director of Clinical Services
Director of Medical Genetics Training
Program
Greenwood Genetic Center
Greenwood, South Carolina

Ken Corning, MS, CGC

Clinical Genetic Counselor
Greenwood Genetic Center
Greenwood, South Carolina

Julie A. DesMarteau, RD, MPAS, PA-C

Clinical Instructor
Comprehensive Epilepsy Center
Department of Neurosciences
Medical University of South Carolina

Mike Friez, PhD

Director, Diagnostic Laboratories
Greenwood Genetic Center
Greenwood, South Carolina

Andrea L. Gropman, MD, FAAP, FACMG

Chief, Division of Neurogenetics and
Developmental Pediatrics
Associate Professor in Neurology
and Pediatrics
Children's National Medical Center
Washington, DC

Laura Kenny, RD

Dietetic Services
Medical University of South Carolina

Stephen L. Kinsman, MD

Associate Professor
Division of Pediatric Neurology
Department of Neurosciences
Medical University of South Carolina

Mary Kral, PhD

Associate Professor
Division of Developmental-Behavioral
Pediatrics
Department of Pediatrics
Medical University of South Carolina

Michael J. Lyons, MD

Assistant Clinical Geneticist
Director, Charleston Office
Co-Director of Clinical Services
Greenwood Genetic Center
Greenwood, South Carolina

Maria G. Matheus, MD

Assistant Professor
Division of Neuroradiology
Department of Radiology
Medical University of South Carolina

G. Shashidhar Pai, MD

Professor
Director, Division of Genetics
Department of Pediatrics
Medical University of South Carolina

Jennifer Poon, MD

Assistant Professor
Division of Developmental-Behavioral
Pediatrics
Department of Pediatrics
Medical University of South Carolina

David E. Stickler, MD

Associate Professor
Director, Neuromuscular Services
Department of Neurosciences
Medical University of South Carolina

Nolan Williams, MD

PGY 6-Chief Resident: Combined
Neurology and Psychiatry
Department of Neurosciences and
Psychiatry
Medical University of South Carolina

Tim Wood, PhD

Director, Biochemical Genetics
Laboratory
Greenwood Genetic Center
Greenwood, South Carolina

13th Annual Pediatric Neuroscience Update

March 28 – 29, 2014 • Kiawah Island Resort, SC

At the conclusion of each session, the learner should be able to achieve the respective objectives stated.

Friday, March 28

- 7:50 Welcome – **Kenton R. Holden, MD**
- 8:00 **Neuroanatomy of Brain Connectivity in Pediatric Neurodevelopmental Disorders**
Leo Bonilha, MD
Review brain anatomy related to neurodevelopmental disorders.
- 8:45 **Neuroimaging of Brain Connectivity**
Maria G. Matheus, MD
Describe the evidence-based information that can assist in choosing a neuroradiological test to assess the historical and CNS structural findings in particular pediatric neurologic cases when assessing connectivity.
- 9:30 Break
- 9:45 **Cost Effective Evaluation of a Child with Neurodevelopmental Delays** **Kenton Holden, MD**
Describe the evaluation of the child who presents with neurodevelopmental delays with a focus on key historical and physical findings that indicate the need for further investigation.
- 10:30 **Pediatric Neuromuscular Disorders: Evaluation Including Neurogenetic Work-Up**
David Stickler, MD
Describe the evaluation of the child who presents with neuromuscular symptoms with a focus on key historical and physical findings that indicate the need for further investigation.
- 11:15 **Case Presentation of Neuromuscular Treatment Issues** **Stephen Kinsman, MD**
Review a pediatric neuromuscular case from evaluation through treatment planning.
- 12:00 **Lunch with Discussion Tables**
Discuss current research and treatment issues specific to the designated lunch table topic.

1. Epilepsy & Neuroradiology – **Leo Bonilha, MD; Maria G. Matheus, MD**
2. Brain Tumors – **Amy-Lee Bredlau, MD**
3. ADHD – **Jennifer Poon, MD**
4. Neuromuscular Disorders – **David Stickler, MD**
5. Neurodevelopmental Disorders – **Jane Charles, MD**
6. Concussions – **Nolan Williams, MD**
7. Neuropsychological Testing – **Mary Kral, PhD**
8. Epilepsy Diets – **Laura Kenny, RD; Julie DesMarteau, PA, RD**
9. Neurogenetics in Pediatrics – **Kenton Holden, MD**

- 1:15 **Pediatric ADHD: Diagnosis and Treatment**
Jennifer Poon, MD
Review and describe current evidence-based practices regarding ADHD.
- 2:00 **Update: Non-ADHD Neurodevelopmental Disorders and Treatment** **Jane Charles, MD**
Describe current research in neurodevelopmental disorders including screening and treatment.
- 3:00 **Neuropsychological Testing Outcomes in Pediatric Concussions** **Mary Kral, PhD**
Review and describe current evidence-based practices regarding neuropsychological testing for concussions in the pediatric clinical setting along with outcomes.
- 3:30 Break
- 3:45 **Pediatric Concussion: New Updated Guidelines and Future Directions** **Nolan Williams, MD**
Review and describe current evidence-based practices regarding concussions in the pediatric clinical setting.
- 4:30 **Epilepsy Diets and New Treatment Updates**
Laura Kenny, RD & Julie DesMarteau, PA, RD
Review a pediatric epilepsy case from evaluation through treatment planning.
- 5:00 Adjourn

Accreditation

The Medical University of South Carolina is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Disclosure Statements

In accordance with the ACCME Essentials and Standards, anyone involved in planning or presenting at this educational activity will be required to disclose any relevant financial relationships with commercial interests in the health care industry. This information will be made available to participants at the beginning of the activity. Speakers who incorporate information about off-label or investigational use of drugs or devices will be required to disclose that information at the beginning of their presentation.

13th Annual Pediatric Neuroscience Update

March 28 – 29, 2014 • Kiawah Island Resort, SC

At the conclusion of each session, the learner should be able to achieve the respective objectives stated.

Saturday, March 29

Pediatric Neurogenetics Mini-Symposium

- 8:00 **Genetic Syndromes Seen in Clinical Pediatric Neurosciences** G. Shashidhar Pai, MD
Review and describe dysmorphology that can be present when assessing possible genetic neurodevelopmental disorders.
- 8:45 **Mitochondrial Disorders: Diagnosis and Treatment** Andrea Gropman, MD
Review and describe current evidence-based practices regarding mitochondrial disorders in the pediatric neurology clinical setting.
- 9:45 Break
- 10:00 **Honduras Case Presentation** Kenton Holden, MD
Review a pediatric case from Honduras from evaluation through treatment planning.
- 10:15 **Global Health Genetics: Spot On!** Tim Wood, PhD
Review evidence-based evaluation of metabolic-genetic disorders from a global perspective.
- 11:00 **Treatments for Neurogenetic Diagnoses** Neena Champaigne, MD
Review and describe current evidence-based practices regarding treatments for genetic diagnoses in the clinical pediatric neurology setting.
- 11:45 **Networking Lunch**
- 1:15 **Next Gene Sequencing: Genomics for Practitioners** Mike Friez, PhD
Identify and review evidence-based information regarding genetic sequencing tests.
- 2:00 **Ethical Considerations of Advanced Genetic Testing** Michael Lyons, MD
Review and describe the latest knowledge about ethical issues associated with genetic testing and their implications for clinical practice.
- 3:00 Break
- 3:15 **Genetic Counseling in 2014** Ken Corning, MS, CGC
Describe the evidence regarding genetic counseling for families and implications for practice.
- 4:00 **Questions and Panel Discussion**
- 4:30 Adjourn

Course Description

This course is designed for providers who are responsible for treating children with neurological, neurodevelopmental, & neurobehavioral disorders. The 2014 conference will again include the latest in the management of these conditions, this year focusing on the neuroanatomy of developmental disorders, ADHD diagnosis/treatments, the new capabilities of neuroimaging, neuromuscular disorders and treatment, update on concussion guidelines and testing, and epilepsy diets treatments. Topics will include the latest research evidence, interventions, and management of these disorders. There will be a sub-specialty symposium all day on Saturday on neurogenetics including mitochondrial disease, new genetic panels versus gene sequencing for diagnosis, ethics related to genetic counseling, and current treatments for neurogenetic diagnoses. Round-table informal lunch discussions on a variety of pediatric neuroscience interests will be offered on Friday, and time for a networking lunch on Saturday.

Cancellations

A refund will be made upon written request prior to February 28, 2014; however, \$75 will be retained for administrative costs. **No refunds will be made after February 28, 2014.** All cancellations must be received in writing. We reserve the right to cancel the program if necessary. Full registration fees will be refunded for cancelled programs. The University cannot be responsible for reimbursement of airline or other transportation fares, hotel or rental car charges, including penalties. **By registering for this conference, you acknowledge and agree to this cancellation policy.**



13th Annual Pediatric Neuroscience Update

March 28 – 29, 2014 • Kiawah Island Resort, SC

Registration Fees

The registration fees for the 2014 Pediatric Neuroscience Update are as follows:

	<i>Early Bird; On or Before 2/15</i>	<i>Full Rate 2/16-3/27</i>	<i>On-Site 3/28-29</i>
Physician in Practice	\$465	\$495	\$525
Physician in Training, NP, PA, PT, OT, ST	\$365	\$395	\$425
One Day Rate (Physician - Friday or Saturday)	\$235	\$265	\$295
One Day Rate (Other - Friday or Saturday)	\$185	\$215	\$245
Printed Course Syllabus	\$30		

*This fee includes continental breakfasts, coffee breaks, lunches on Friday and Saturday, online syllabus, and credit processing. Please note, a conference syllabus will be available for those who order one in advance. The cost for a syllabus is an **additional \$30.00**.*



Registration Methods

Please use one of these methods to register: (Do not mail if previously faxed or telephoned)

- **Mail:** Please send registration form with check payable to “Medical University of South Carolina” or credit card information to:

Elizabeth Gossen
Office of CME - MUSC
19 Hagood Avenue, Suite 1004
MSC 754
Charleston, SC 29425

- **Telephone:** 843-876-1925 - Credit Card only.
- **Fax:** 843-876-1931 - Credit Card only. (Secured area).
- **Online:** Visit www.musc.edu/cme. Please select “CME Conferences” in the left hand menu, and scroll down to find “13th Annual Pediatric Neuroscience Update” and select the blue “Register” button.

*No pre-registrations will be accepted after **March 25, 2014**. After March 25, you must contact the Office of CME at 843-876-1925 to see if space is still available. If space is still available you must register onsite.*

Note: There will be an increased rate for onsite registrations!

67th Annual Festival of Houses & Gardens

March 20 – April 19, 2014
843-723-1623

Sponsored by Historic Charleston Foundation, the festival features tours of the interiors of approximately 150 historic private homes in 10 colonial and antebellum neighborhoods and strolls through distinctive private gardens during the peak of the city's blooming season. Ticket information available at www.historiccharleston.org



Americans with Disabilities Act

It is the policy of the Medical University of South Carolina not to discriminate against any person on the basis of disabilities. If you feel you need services or the auxiliary aids mentioned in this act in order to fully participate in this continuing medical education activity, please call the Office of CME at 843-876-1925 or attach a note to your registration form by March 1, 2014.

Registration Form

Please print or type all information on this form.

13th Annual Pediatric Neuroscience Update

March 28 – 29, 2014 • East Beach Conference Center, Kiawah Island, SC

Last Name First Name Middle Initial

Degree Last 4 Digits of SSN

Address City/State Zip

Office Phone Office Fax

Email Address *Please provide the email address you actively use to ensure receipt of all evaluation and credit documentation.*

☐ I do NOT want my name included on the list of participants that will be included in the conference handouts.

What is your primary Medical Specialty? *(Check One)*

☐ Pediatrics ☐ Family Medicine ☐ Education ☐ Physical Therapy ☐ Neurology ☐ Neurosurgery
☐ Psychology ☐ Speech Therapy ☐ Occupational Therapy ☐ Other _____

Friday Round-table Lunch Discussions *Using the list on the conference schedule, please insert the number for your 1st & 2nd Choice.*

_____ 1st Choice _____ 2nd Choice

Please check your tuition category.

	<i>Early Bird; On or Before 2/28</i>	<i>Full Rate 2/29-3/27</i>	<i>On-Site 3/28-29</i>
☐ Physician in Practice	☐ \$465	☐ \$495	☐ \$525
☐ Physician in Training, NP, PA, PT, OT & ST	☐ \$365	☐ \$395	☐ \$425
☐ One Day Rate (Physician: ☐ Friday ☐ Saturday)	☐ \$235	☐ \$265	☐ \$295
☐ One Day Rate (Other: ☐ Friday ☐ Saturday)	☐ \$185	☐ \$215	☐ \$245
☐ YES, I would like a Printed Course Syllabus.	☐ \$30		

Please check payment method. *Payment must accompany registration!*

☐ Check payable to **Medical University of South Carolina**
☐ Mastercard ☐ Visa ☐ American Express

Cardholder's Name

Card Number Expiration Date

Please use one of these methods to register: *(Do not mail if previously faxed or telephoned)*

• **Mail:** Please send registration form with check payable to "Medical University of South Carolina" or credit card information to: Elizabeth Gossen, Office of CME - MUSC, 19 Hagood Avenue, Suite 1004, MSC 754, Charleston, SC 29425

• **Telephone:** 843-876-1925 - Credit Card only.

• **Fax:** 843-876-1931 - Credit Card only. (Secured area).

• **Online:** Visit www.musc.edu/cme. Please select "CME Conferences" in the left hand menu, and scroll down to find "13th Annual Pediatric Neuroscience Update" and select the blue "Register" button.

No pre-registrations will be accepted after March 25, 2014. After March 25th, you must contact the Office of CME at 843-876-1925 to see if space is still available. If space is available you must register onsite. Note: There will be an increased rate for onsite registrations.