



AMERICAN
EPILEPSY
SOCIETY

PROGRAM
PREVIEW

DECEMBER 4 - 8, 2015

PENNSYLVANIA
CONVENTION CENTER
PHILADELPHIA, PA

69TH
ANNUAL MEETING





AMERICAN
EPILEPSY
SOCIETY

LEARN. SHARE. CONNECT.

AT THE AMERICAN EPILEPSY SOCIETY 69TH ANNUAL MEETING

DECEMBER 4-8, 2015
PENNSYLVANIA CONVENTION CENTER
PHILADELPHIA, PA

You're at the center of the latest thinking, treatment and technology in epilepsy at the AES Annual Meeting.

Discover The Latest

Learn from the leaders advancing research and clinical care for people with epilepsy.

Exchange With Peers

Share challenges and successes with professional colleagues from around the world.

Build Your Network

Connect with experts, exhibitors and peers to continue networking all year long.

Join the entire professional epilepsy community for this one-of-a-kind event: the AES Annual Meeting in Philadelphia.

Mission Statement

The American Epilepsy Society promotes research and education for professionals dedicated to the prevention, treatment and cure of epilepsy.

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SCHEDULE-AT-A-GLANCE

THURSDAY, DECEMBER 3

5:00 p.m. - 7:00 p.m. **Registration**

FRIDAY, DECEMBER 4

7:00 a.m. - 5:00 p.m. **Registration**

8:30 a.m. - 11:30 a.m.	Epilepsy Specialist Symposium: Malformations of Cortical Development and Epilepsy	1:30 p.m. - 3:00 p.m.	Professional Development in AES: A Program for Junior Members and Those in Transition
9:00 a.m. - 3:15 p.m.	29th Annual Advances in the Management of Epilepsy and the Epilepsy Clinic	1:30 p.m. - 3:00 p.m.	Special Interest Group Meetings
12:30 p.m. - 3:00 p.m.	Annual Fundamentals of Epilepsy Symposium: Video-EEG Monitoring	3:30 p.m. - 5:30 p.m.	13th Judith Hoyer Lecture in Epilepsy
1:00 p.m. - 3:00 p.m.	Fellowship Program Directors Meeting	3:30 p.m. - 6:00 p.m.	Spanish Symposium: Frontal Lobe Epilepsy
		6:00 p.m. - 7:30 p.m.	Special Interest Group Meetings
		6:00 p.m. - 7:30 p.m.	Basic Science Skills Workshop

SATURDAY, DECEMBER 5

6:30 a.m. - 5:00 p.m. **Registration**

7:00 a.m. - 8:30 a.m.	Special Interest Group Meetings	2:30 p.m. - 4:00 p.m.	Investigators' Workshops
8:30 a.m. - 11:45 a.m.	Presidential Symposium: Getting to Cure – The Challenging Road to Disease Modification and Prevention for Epilepsy	5:30 p.m. - 7:30 p.m.	Translational Research Symposium: Rigor in Translational Research – Issues, Experience and Solutions
Noon - 6:00 p.m.	Poster Session One	5:30 p.m. - 8:00 p.m.	Professionals in Epilepsy Care Symposium: Interprofessional Models and Collaborative Care
Noon - 6:00 p.m.	Exhibit Hall		Fourth Annual Wine Tasting and Silent Auction
2:15 p.m. - 5:00 p.m.	Epilepsy Therapy Symposium: What You Need to Know to Get Your Patient into the 65% Group!	7:00 p.m. - 10:00 p.m.	

SUNDAY, DECEMBER 6

7:30 a.m. - 5:00 p.m. **Registration**

8:00 a.m. - 4:00 p.m.	Poster Session Two	8:45 a.m. - 5:15 p.m.	Annual Course: Epilepsy and the Media
8:00 a.m. - 5:00 p.m.	Scientific Exhibits	10:00 a.m. - 4:00 p.m.	Exhibit Hall
8:30 a.m. - 5:00 p.m.	ASET LTM Course: Setting Up for Success in Long Term Monitoring	6:00 p.m. - 7:30 p.m.	Special Interest Group Meetings
8:45 a.m. - 4:45 p.m.	Investigators' Workshops	8:00 p.m. - 10:00 p.m.	Social Networking Groups

MONDAY, DECEMBER 7

7:00 a.m. - 5:00 p.m. **Registration**

7:00 a.m. - 8:30 a.m.	Special Interest Group Meetings	3:00 p.m. - 4:30 p.m.	Investigators' Workshop
8:00 a.m. - 2:00 p.m.	Poster Session Three	3:00 p.m. - 5:00 p.m.	FDA Town Hall Update: Generic Antiepileptic Drug Bioequivalence in Epilepsy Patients – From Anecdotes to Evidence
8:00 a.m. - 5:00 p.m.	Scientific Exhibits		Pediatric Epilepsy Highlights Session
8:45 a.m. - Noon	Merritt-Putnam Symposium: Networks In Epilepsy	3:00 p.m. - 5:15 p.m.	Platform Sessions: Three Concurrent Sessions
9:00 a.m. - 10:30 a.m.	Special Interest Group Meetings	3:00 p.m. - 5:15 p.m.	Pediatric State of the Art Symposium: Death in Children with Epilepsy – A Different Tragedy Than in Adults
10:00 a.m. - 2:00 p.m.	Exhibit Hall		
2:15 p.m. - 3:00 p.m.	Lennox and Lombroso Lecture: Epilepsy and Autism: Bad Luck or Bad Connectivity?	5:30 p.m. - 8:00 p.m.	

TUESDAY, DECEMBER 8

7:00 a.m. - 12:30 p.m. **Registration**

7:00 a.m. - 8:30 a.m.	Special Interest Group Meetings	11:00 a.m. - 12:30 p.m.	Skills Workshops Session One: Six Concurrent Sessions
8:45 a.m. - 10:45 a.m.	Scientific Symposium: Personalized Medicine in Epilepsy: A Brave New World	12:45 p.m. - 2:15 p.m.	Skills Workshops Session Two: Six Concurrent Sessions
8:45 a.m. - 10:45 a.m.	Hot Topics Symposium: Epilepsy Updates		

AES 2015 Annual Meeting

The American Epilepsy Society (AES) is one of 108 Chapters of the International League Against Epilepsy (ILAE). The AES Annual Meeting is the largest meeting and exhibition in the world for those who share the common scientific and clinical interests of epilepsy and clinical neurophysiology. The meeting attracts nearly 5,000 attendees dedicated to improving the quality of life for those dealing with epilepsy.

Who Should Attend

The AES Annual Meeting offers high-quality educational content across diverse work settings, professional roles and experience levels:

Basic: Those new to epilepsy treatment or whose background in the specialty is limited, e.g., students, residents, general physicians, general neurologists and neurosurgeons, other professionals in epilepsy care, administrators.

Intermediate: Epilepsy fellows, epileptologists, epilepsy neurosurgeons, and other providers with experience in epilepsy care (e.g., advanced practice nurses, nurses, physician assistants), neuropsychologists, psychiatrists, basic and translational researchers.

Advanced: Address highly technical or complex topics (e.g., neurophysiology, advanced imaging techniques or advanced treatment modalities, including surgery.)

Educational Sessions

From illuminating lectures to hands-on learning, the AES Annual Meeting offers a comprehensive program:

Symposia — Provide the major educational activities at the Annual Meeting. Topics range from clinically oriented presentations reviewing common issues in epilepsy to more complex topics combining basic sciences and clinical neurology. While target audiences differ, all symposia include discussion of clinically relevant information.

Special Interest Groups (SIGs) — Offer a less formal opportunity for attendees with similar interests to explore specific topics, through brief educational sessions and open discussion. Although the sizes of SIG sessions vary, all lend themselves to active participation and dialogue.

General Lectures — Recognize distinguished leaders in clinical epilepsy and research. At the Hoyer Lecture, an AES past-president honors contributions by leading members. An invited member whose scholarly work has greatly enhanced the collective understanding of epilepsy gives the Lennox and Lombroso Lecture.

Annual Course — Allows in-depth exploration of important topics related to epilepsy, focused on clinical care, including review of the science underlying the topics, reviews of clinical research and discussion of the associated clinical implications. The Annual Course utilizes a mixture of educational lectures, clinical vignettes and panel discussions.

Investigator Workshops — Provide exploration and discussion of the science underlying epilepsy, with focus on

basic science research, but clinical and translational research also. While the target audience is primarily scientists, some workshops provide insight into the scientific basis of clinical epilepsy.

Skills Workshops — Deliver hands-on and interactive learning opportunities in focused clinical areas. Attendance at each workshop is limited to a small number of participants to allow for optimal interaction. Advanced registration and an additional fee are required.

Poster Sessions

Providing a forum for cutting edge research, Poster Sessions encourages interaction among presenters and attendees.

POSTER SESSIONS	OPEN	CLOSE
Saturday, December 5, 2015	Noon	6:00 p.m.
Sunday, December 6, 2015	8:00 a.m.	4:00 p.m.
Monday, December 7, 2015	8:00 a.m.	2:00 p.m.

Exhibit Hall

The Exhibit Hall is an integral part of the learning experience. Meeting participants will have an ideal opportunity to learn about the latest in pharmaceuticals, publications, scientific equipment and technology relevant to the fields of epilepsy and neurophysiology. Please check the AES website for the most recent listing of exhibitors.

EXHIBIT HALL	OPEN	CLOSE
Saturday, December 5, 2015	Noon	6:00 p.m.
Sunday, December 6, 2015	10:00 a.m.	4:00 p.m.
Monday, December 7, 2015	10:00 a.m.	2:00 p.m.

To ensure safety and security, no children under 12 years of age, strollers, carriages, wheeled luggage or wheeled briefcases are allowed in the Exhibit Hall during exhibit hours.

Scientific Exhibits

AES has approved guidelines for industry-sponsored Scientific Exhibits at the Annual Meeting. Scientific Exhibits differ from traditional poster presentations in that a broad range of material can be presented as a collection of topics, such as results of various clinical trials or a thematic presentation of one aspect of drug development.

SCIENTIFIC EXHIBITS	OPEN	CLOSE
Sunday, December 6, 2015	8:00 a.m.	4:00 p.m.
Monday, December 7, 2015	8:00 a.m.	5:00 p.m.

An application to register for a Scientific Exhibit is required. Reservations are reviewed and accepted on a first-come, first-served basis until space is sold out. Send inquiries to JoLynn Amsden at jamsden@aesnet.org.



Accreditation

The American Epilepsy Society is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to offer continuing medical education for physicians.

Credit Designation

Physicians

The American Epilepsy Society designates this live activity for a maximum of 31.25 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Physician Assistant

AAPA accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credit*[™] from organizations accredited by ACCME or a recognized state medical society. Physician assistants may receive a maximum of 31.25 hours of Category 1 credit for completing this program.



Jointly provided by AKH Inc., Advancing Knowledge in Healthcare and the American Epilepsy Society.

Nursing

AKH Inc., Advancing Knowledge in Healthcare is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

This activity is awarded 31.25 contact hours.

Nurse Practitioners

AKH Inc., Advancing Knowledge in Healthcare is accredited by the American Association of Nurse Practitioners as an approved provider of nurse practitioner continuing education. Provider Number: 030803.

This program is accredited for 31.25 contact hours which includes 8 hours of pharmacology. Program ID #21547

This program was planned in accordance with AANP CE Standards and Policies and AANP Commercial Support Standards.



Pharmacy

AKH Inc., Advancing Knowledge in Healthcare is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education.

Select portions of this Annual Meeting are approved for pharmacy CE credit. Specific hours of credit for approved presentations and Universal Activity Numbers assigned to those presentations are found in the educational schedules. Criteria for success: credit is based on documented program attendance and online completion of a program evaluation/assessment.

If you have any questions about this CE activity, please contact AKH Inc. at service@akhcme.com.

International Credits

The American Medical Association has determined that non-U.S. licensed physicians who participate in this CME activity are eligible for *AMA PRA Category 1 Credits*[™].

CME/CE Certificates

For those attendees who wish to claim CME or CE, there is an additional fee. Registrants can pay this fee as part of the registration process. Those who do not pre-purchase the credit will also have the ability to pay this fee at the time they attempt to claim credit. Fees for CME increase after January 16 and are a one-time charge per annual meeting.

The evaluation system will remain open through Friday, February 26, 2016. Evaluations must be completed by this date in order to record and receive your CME/CE certificate.

Member Fees: \$50 through January 15, 2016
\$75 January 16 – February 26, 2016

Non-member Fees: \$75 through January 15, 2016
\$100 January 16 – February 26, 2016

Attendance Certificate/International Attendees

A meeting attendance certificate will be available at the registration desk for international meeting attendees on Tuesday, December 8.

Policy on Commercial Support and Conflict of Interest

The American Epilepsy Society maintains a policy on the use of commercial support, which ensures that all educational activities sponsored by AES provide in-depth presentations that are fair, balanced, independent and scientifically rigorous. All faculty, planning committee members, editors and other individuals who are in a position to control content are required to disclose any relevant relationships with any commercial interests related to the activity. The existence of these interests or relationships is not viewed as implying bias or decreasing the value of the presentations. All educational materials are reviewed for fair balance, scientific objectivity and levels of evidence. This information will also be made available through syllabus materials and faculty presentations.

Disclosure of Unlabeled/Unapproved Uses

This educational program may include references to the use of products for indications not approved by the FDA. These discussions are noted on the faculty's disclosure forms as well as during their presentations. Opinions expressed with regard to unapproved uses of products are solely those of the faculty and are not endorsed by the American Epilepsy Society or any manufacturers of pharmaceuticals.

Program Book

The final Program Book will be available at the AES website approximately two weeks prior to the Annual Meeting. The printed version will be distributed upon check-in at registration. The Program Book includes updates and additions to the educational schedules, information on room assignments for sessions and a complete Exhibit Hall listing.

Session Handouts

Handouts for the educational symposia will be available at the AES website by late November.

Abstracts

Abstracts from the 2015 Annual Meeting will be available on the AES website and as an online supplement to *Epilepsy Currents*.

Meeting App

Access full details — schedules, speakers, sponsors exhibitors and floor plans — from the Annual Meeting mobile application. New interactive features are being added to the app for 2015: complete information will be available in September.

Cyber Café

The Cyber Café will be available during Exhibit Hall hours at the Convention Center with email and Internet access. You will be able to complete the course evaluations and obtain your CME certificate online. For your convenience, WiFi will also be available in the Convention Center.

Affiliate Meetings

All industry and other affiliate meetings and events including alumni reunions, receptions, board meetings and committee meetings must be approved and confirmed by AES in advance. Limited meeting space will be available at the Philadelphia Marriott Downtown. Detailed guidelines including allowable times will be available by the end of August on the AES website.

Program Changes

AES cannot assume liability for any changes in the program due to external or unforeseen circumstances. For program updates, please visit the Annual Meeting website at www.AESnet.org/meeting15

Information for International Travelers

Consulates and Embassies

Please check with your local U.S. consulate or embassy to find out the earliest that you may apply for a visa at www.usembassy.gov. The visa applications process can take as long as 8 weeks, especially for those countries that are on the State Sponsors of Terrorism List. Attendees from these countries should start the application process at least 6 – 8 months in advance of the Annual Meeting.

Visa Application Information

You may access the [AES website](http://www.aes.org) for information regarding important timelines and travel to the United States.

Disclaimer: Please note that this information is provided in good faith. Regulations may change and the only authoritative sources of information are the U.S.

Government websites at www.unitedstatesvisas.us and www.travel.state.gov/visa/visa_1750.html

Letter of Invitation

For security purposes, letters of invitation can only be sent to individuals registered for the Annual Meeting. Please check the appropriate box online when completing your registration. A letter will be sent to your email after your registration is completed. Send any related questions to aes@experient-inc.com.

Banking and Currency Exchange

Banking hours in the United States are generally Monday to Friday, 9:00 a.m. – 4:00 p.m. Select banks are open on Saturday. Several banking institutions are within walking distance of the Convention Center.

Time Zone

During the month of December, Philadelphia operates in the Eastern Standard Time Zone (GMT – 5 hours).

Other Helpful Information

Voltage in the United States is 120 (60 HZ). Outlet sockets use either a Type A plug which is a Class II ungrounded plug with two flat parallel prongs, or a Type B plug which is a Class I plug with two flat parallel prongs and a grounding pin. European appliances will require a voltage transformer.

Gratuities are not automatically added to restaurant bills, except in some cases for large groups. If satisfied with your service, waiters and waitresses generally are tipped 15% to 20% of the bill. Additional suggestions regarding tipping: \$1 per bag for skycaps and porters; 15% of the fare for taxi drivers; \$2 per night for hotel housekeepers; and \$2 per service for doormen.

GENERAL INFORMATION

Language

The official language of the Annual Meeting is English.

Meeting Attire

Dress for the Annual Meeting is business casual. Consider bringing a light jacket or sweater with you since meeting room temperatures and personal comfort levels vary.

Security

AES is committed to providing a secure meeting environment. A formal security plan is developed in consultation with the security department at the Convention Center. Security procedures will also be in place for exhibition materials and all deliveries to the Annual Meeting. Additional security information will be available in the Program Book received at the onsite registration desk.

Insurance/Liabilities

AES cannot be held responsible for any personal injury, loss, damage, accident to private property or additional expenses incurred as a result of delays or changes in air, rail, sea, road or other services, strikes, sickness, weather, acts of terrorism and any other cause. All participants are encouraged to make their own arrangements for health and travel insurance.

No Smoking Policy

For the comfort and health of all attendees, smoking is not permitted at any AES function. This includes educational sessions, meetings and all food functions. Both the

Pennsylvania Convention Center and the official meeting hotels are smoke-free facilities. Please note: smoking is not permitted in public buildings, restaurants or bars.

Photography and Recording of Programs

AES strictly prohibits all photography (flash, digital, or otherwise), audio and/or videotaping during all educational sessions at the Annual Meeting. Violation of this policy will result in removal from the session and equipment will be confiscated.

Material presented at the AES Annual Meeting is not to be reproduced in any format without the express written consent of AES. Attendees acknowledge and agree that commercial or promotional distribution, publishing or exploitation of speaker sessions, content or materials from the AES Annual Meeting is strictly prohibited unless you have received the express prior written permission from AES or the otherwise applicable rights holder.

Photography Release

AES uses photographs of meeting events in its promotional materials. Unless the permission is revoked in writing to AES, by virtue of their attendance, all meeting visitors agree to use of their likeness in such materials.

Press Room

Find great stories and learn the latest scientific developments about epilepsy during the AES Annual Meeting. The AES Media Relations team assists reporters with finding background information, resources and experts in the field to provide context to emerging science and presented sessions.

The AES Media Relations team provides support by:

- Hosting press briefings with scientific and clinical experts
- Helping develop stories and research facts
- Connecting reporters with experts and presenters
- Providing Annual Meeting press kits on select scientific abstracts, AES leadership and award winners

The AES Press Room is open December 4 – 8 and provides access to abstracts, Annual Meeting publications, press briefing schedules, Internet connections and work space. More details, including press releases, press briefings and other news will be sent to registered press. For more information and to register as press, contact Natalie Judd at 203-389-5223 or natalie@bigvoicecomm.com.

NEW FOR 2015

Easier to Register and Book Hotels

Registering for the AES Annual Meeting and booking at preferred hotels is now one single, easier process. AES has selected Experient, Inc., to manage the combined registration and housing process.

Get started by visiting the [registration and housing website](#).

Registration Options

You must register to attend any Annual Meeting educational sessions, exhibit hall or social functions. Two registration options are available:

- Full annual meeting registration includes all five days of the meeting. All educational sessions are included except as noted below.
- One-day or two-day registration(s) include all events on the day(s) you pay to attend, except as noted below

Events requiring an extra event fee include Skills Workshops, 29th Annual Advances in the Management of Epilepsy and the Epilepsy Clinic, ASET LTM Course and the Fourth Annual Wine Tasting and Silent Auction.

Discounts

Early Bird Rate: Registrations completed and paid for by Friday, October 30 at 11:59 p.m. (ET) provide the lowest available "early bird" rates. Attendees save an additional \$50 on full and two-day registrations completed by this date when choosing to confirm a hotel room at the time they register through Experient, Inc., the AES official housing bureau. This discount does not apply to one day registrations.

Once you add your hotel, the registration discount will be applied at the end. This discount is only available when your meeting registration and hotel reservation are confirmed at the same time *and* completed by Friday, October 30th.

Standard/Onsite Rate: Rates increase for all registration types beginning on Saturday, October 31, 2015, whether completed online or onsite.

AES Members: Current AES members receive a substantial discount on Annual Meeting registration. If your membership is not current, you will be required to renew during the registration process to receive members rates.

During the registration process, non-members have the option to apply for AES membership and receive discounted member registration rates.

The Advantage of AES Membership

The American Epilepsy Society invites you to join one of the longest established professional organizations in the United States. In addition to discounts for educational programs, AES membership offers a wide-range of educational, networking and professional benefits, including a subscription to the AES official journal *Epilepsy Currents*; access to AES Connect, an online community exclusively for members; professional development via the Epilepsy Learning Institute; notice of funding opportunities; and more.

Pay by Check: Generate Your Invoice

To pay by check, use the online registration process to create your invoice. Simply select "Payment By Check" in the dropdown menu. Complete the registration process and use the confirmation as your invoice for the balance due. Be sure to submit payment by Friday, October 30 to be eligible for early-bird discounts.

CME/CE Credit

Attendees may pay this fee as part of the registration process: \$50 for members, \$75 for non-members.

Guest Passes

Guests of any registrant wishing to view exhibits or posters must purchase a one-day guest pass at the registration desk onsite for \$75 per person.

Poster Presenters

Poster presenters are required to register at the appropriate registration rate; a guest pass may not be used.

International Group Registrations

International group registrations are limited to groups of ten or more international travelers and arranged through a Group Coordinator. To qualify, the entire group fee must be paid in full and participant registration lists received no later than Wednesday, November 4. In addition to credit cards and checks, wire transfers are also accepted for international group registrations: a \$75 fee per wire applies. More information is found at the [AES website](#).

Appointments to pick up group badges will be scheduled for Thursday, December 3 between 9:00 a.m. and 4:00 p.m. for an onsite group leader. Please proceed to the AES Registration Desk at the Pennsylvania Convention Center, The Bridge, Level 200.

Passport and Visa Requests: AES strongly encourages all attendees to ensure they have fulfilled all legal requirements to enter the United States. See page 6 for additional information for international travelers.

Contributions/Donations

Please consider a tax-deductible gift to AES when you register or donate online at www.aesnet.org/about_aes/contribute. Donations will be used exclusively to support research, education and training programs.

REGISTRATION AND HOTEL INFORMATION

Registration Categories And Fees

Registration	Early With Housing (Until October 30)		Early Without Housing (Until October 30)		Standard/Onsite (Begins October 31)	
	MEMBER	NON-MEMBER	MEMBER	NON-MEMBER	MEMBER	NON-MEMBER
Medical Professional - MD and DO	\$630	\$1,250	\$680	\$1,300	\$995	\$1,600
Medical Professional (Other) Non-MD/Non-DO	\$400	\$675	\$450	\$725	\$650	\$875
Student	\$100	\$100	\$150	\$150	\$200	\$200
Resident or Fellow	\$210	\$475	\$260	\$525	\$470	\$650
Epilepsy Leadership Council representative/staff, or other Non-Profit Staff or representative (non-medical professional)	\$210	\$210	\$260	\$260	\$470	\$470
One Day*	\$300	\$425	\$300	\$425	\$450	\$575
Two Day	\$500	\$750	\$600	\$850	\$900	\$1,150
Lab Assistant/Admin (Guest)**	\$210		\$260		\$470	
Developing Countries†			\$240	\$240	\$240	\$240

* Registration discount for booking a hotel does not apply to One Day registration.

** To receive this rate, attendee must be registered by active AES member.

† Individuals residing and working in Low Income Developing Countries, as defined by The World Bank, may register online only for the five-day program at a reduced rate. Fees are determined automatically based on the country. No other discounts are available with this rate.

Special Needs

AES welcomes attendees with special needs and fully complies with the legal requirements of the Americans with Disabilities Act (ADA) and the rules and regulations thereof. If you are an attendee with special needs, please check the special needs box during online registration. Special needs arrangements should be indicated prior to Thursday, November 12.

Registration Cancellation Policy

Cancellations may be sent via email or faxed and must be received no later than Monday, November 23.

Email: aes@experient-inc.com

Fax: 888.772.1888 (Domestic)
301.694.5124 (International)

- Requests received by Monday, November 23 or earlier will receive a full refund, minus a \$100 administrative fee
- Requests made Tuesday, November 24 or later are not eligible for any refund
- Credit Card refunds: Allow 5-7 business days to be processed
- Check refund: Allow 4-6 weeks after the meeting

Onsite Registration

Onsite registration will be open at the Pennsylvania Convention Center at The Bridge, Level 200, during these hours:

	OPEN	CLOSE
Thursday, December 03, 2015	5:00 p.m.	7:00 p.m.
Friday, December 04, 2015	7:00 a.m.	5:00 p.m.
Saturday, December 05, 2015	6:30 a.m.	5:00 p.m.
Sunday, December 06, 2015	7:30 a.m.	5:00 p.m.
Monday, December 07, 2015	7:00 a.m.	5:00 p.m.
Tuesday, December 08, 2015	7:00 a.m.	12:30 p.m.

Badge information

New for 2015: All badges and tickets will be printed onsite. All attendees will be required to produce government-issued photo identification prior to receiving their badge and registration materials. Badges must be worn at all times while in attendance at the Annual Meeting and are required for admittance to all meeting activities.

Registration and Housing Customer Service



WEBSITE

Online Registration And Housing
[Click Here](#)



PHONE

800.974.9769 (US & Canada)
847.996.5892 (International)
Available Monday – Friday
9:00 a.m. – 5:00 p.m. (CST)



EMAIL

aes@experient-inc.com

REGISTRATION AND HOTEL INFORMATION

Meeting Location

AES is pleased to host its 69th Annual Meeting in Philadelphia, PA. The meeting will be held at:

Pennsylvania Convention Center
1101 Arch Street
Philadelphia, PA 19107

The Pennsylvania Convention Center is a state-of-the-art facility located close to restaurants, shopping, museums, entertainment, attractions and nightlife. It is connected to a regional rail station, shopping mall, microbrewery and farmers' market. The Center's focal point is the historically certified Reading Terminal train shed, the sole surviving single-span train shed in the country. The Terminal train shed links to the exhibit hall, additional meeting and banquet space and the Philadelphia Marriott Downtown.

Directly below and accessible to the Center, the Market Street East rail station offers annual meeting attendees a convenient, high-speed rail link to Amtrak's 30th Street Station and the Philadelphia International Airport.

The Program Book you receive onsite at registration will contain maps and specific locations for all meeting events. General information includes

AES Registration	The Bridge, Level 200
Exhibit Hall and Posters	Exhibit Hall A, Level 200
Session Rooms	Level 100 & Level 200
General Sessions	Ballroom A & B, Level 300

About Philadelphia

Philadelphia, a dynamic place where big city excitement meets hometown charm, awaits your arrival. Famous as the birthplace of life, liberty and the pursuit of happiness, the cradle of liberty offers much more than cobblestone streets and historical landmarks.

Of course, the greatest concentration of American history can be found just blocks away at Independence National Historical Park, including the Liberty Bell and Independence Hall. This vibrant area also boasts cultural, culinary, artistic and ethnic treasures.

Best of all, Philadelphia's compact downtown places all of this and so much more within a short walk or cab ride from the Pennsylvania Convention Center and any downtown hotel. For additional information, please access the Philadelphia Convention Center and Visitor's Bureau website at www.discoverphl.com/aes



Getting There

Philadelphia's mid-Atlantic location is convenient for both domestic and international travelers.

Travel by Air: Philadelphia International Airport serves more than 120 cities worldwide with 1,400 daily flights, including 120 international flights. For real-time flight departure and arrival information, call 1-800-PHL-GATE (1-800-745-4283).

For additional information, contact the Airport's 24-hour information line at 215-937-6937 or visit the Airport's Web site, www.phl.org.

Transportation from the Airport to Downtown

The SEPTA (Southeast Pennsylvania Transportation Authority) Airport R-1 regional rail line connects the Airport with Center City. One-way cab fare to and from Center City is approximately \$20; car, limousine and shared ride services are also available.

Zone 5: Taxi service

Zone 6: Sedan and limousine services

Zone 7: Shared ride van services

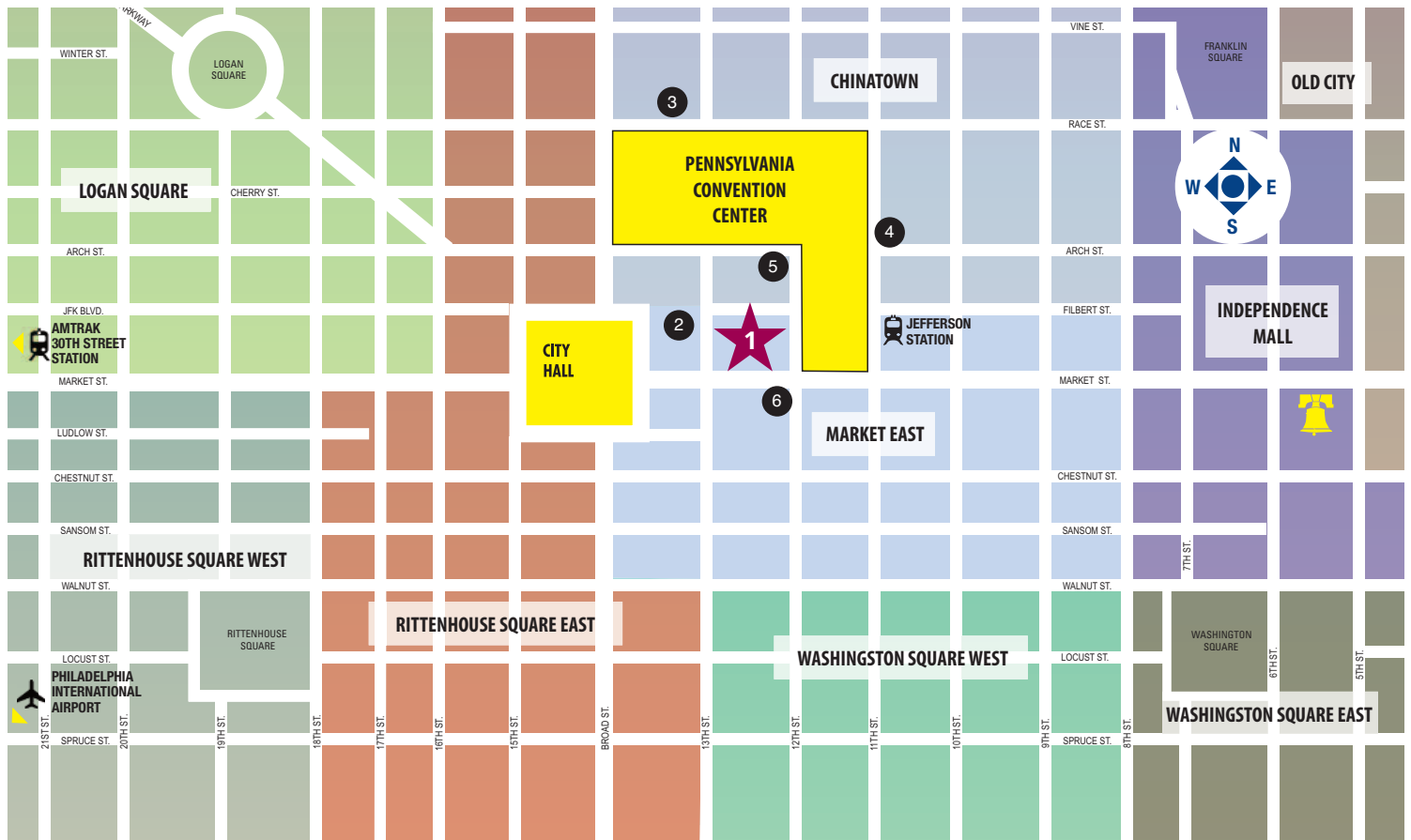
Travel by Rail: Amtrak provides extensive service to Philadelphia's 30th Street Station (30th and Market streets). For schedules and fares, contact Amtrak at 800-USA-RAIL or www.amtrak.com.

Travel By Car: Interstates 95 and 76, and the Pennsylvania and New Jersey Turnpikes, provide easy access to Philadelphia. Once you arrive, there are more than 40 parking lots and garages in Center City.

REGISTRATION AND HOTEL INFORMATION

Preferred Hotels

Using a preferred hotel offers you easy access to the Annual Meeting. These hotels also offer a discounted rate and help offset overall meeting expenses.



- ★
1 Philadelphia Marriott Downtown (Headquarter Hotel)
- 4 Hilton Garden Inn Center City
- 2 Courtyard Philadelphia Downtown
- 5 Home2 Suites Convention Center
- 3 Hampton Inn Center City
- 6 Loews Philadelphia



REGISTRATION AND HOTEL INFORMATION

1 Philadelphia Marriott Downtown (Headquarter Hotel)

1201 Market Street
Philadelphia, Pennsylvania 19107
Adjacent to Convention Center

Rates: \$229 Single / \$249 Double (plus tax)
Check-in: 4:00 p.m. Check-out: Noon

This premier Philadelphia hotel is connected by skywalk to the Pennsylvania Convention Center. Located in the heart of Center City Philadelphia, PA and America's quest for liberty, the Philadelphia Marriott Downtown commands a towering presence, rising to every occasion for the business traveler.

The hotel is only a short walk to the finest restaurants, shopping and entertainment that Philadelphia has to offer. Located just 1 mile from 30th Street Train Station and only 9 miles from the Philadelphia International Airport, the Philadelphia Marriott Downtown hotel is the perfect location.

2 Courtyard Philadelphia Downtown

21 Juniper Street
Philadelphia, Pennsylvania 19107

Rates: \$219 Single / \$239 Double (plus tax)
Check-in: 3:00 p.m. Check-out: Noon

The Courtyard Downtown Philadelphia hotel, listed in "National Register of Historic Places," recaptures the grandeur of 1926 historic Philadelphia Pennsylvania. After a \$75 million architectural restoration, this Philadelphia, PA hotel incorporates state-of-art systems with timeless features such as elegant bronze work, plaster detailing and striking marble finishes. This first-class Center City Philadelphia hotel is just 1 block from the Pennsylvania Convention Center and Philadelphia City Hall, and minutes from the Philadelphia financial district, historic area, Avenue of the Arts, shopping and restaurants.

3 Hampton Inn Center City

1301 Race Street
Philadelphia, Pennsylvania 19107

Rates: \$159 Single or Double (plus tax)
Check-in: 4:00 p.m. Check-out: 11:00 a.m.

The Hampton Inn Center City is located in downtown Philadelphia, across the street from the Pennsylvania Convention Center. For those flying in, Philadelphia International Airport is only a 20-minute drive away and within walking distance to many historic sites.

4 Hilton Garden Inn Center City

1100 Arch Street
Philadelphia, Pennsylvania 19107

Rates: \$189 Single or Double (plus tax)
Check-in: 4:00 p.m. Check-out: 11:00 a.m.

The hotel is within walking distance of Pennsylvania Convention Center, Independence Hall and historic sites. The location is also near the Regional rail and subway station linking directly to the airport and train station.

5 Home2 Suites Convention Center

1200 Arch Street
Philadelphia, Pennsylvania 19107

Rates: \$189 Single / Double (plus tax)
Check-in: 3:00 p.m. Check-out: Noon

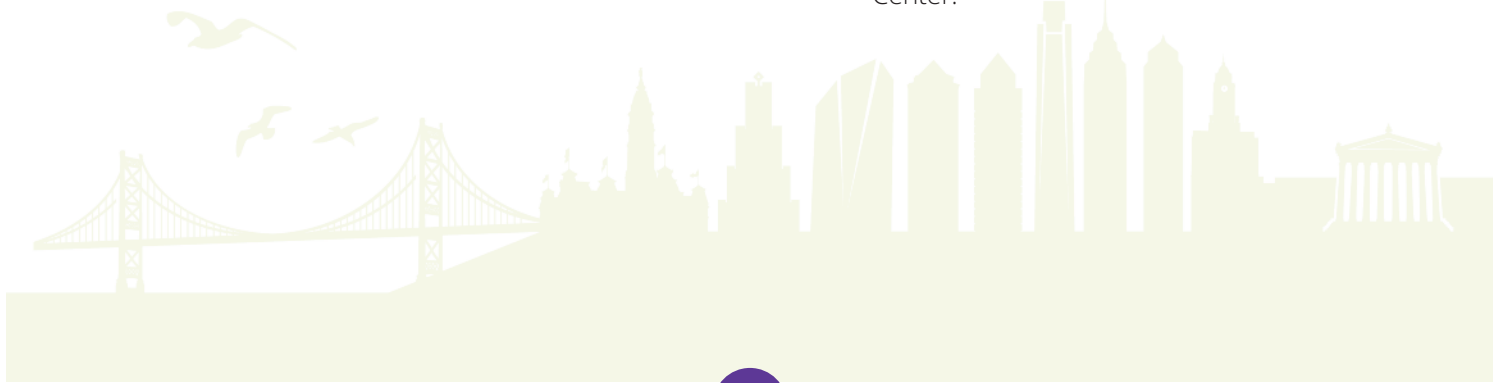
Home2 Suites by Hilton is located just yards from the Pennsylvania Convention Center and two blocks from Jefferson Station for the subway system.

6 Loews Philadelphia

1200 Market Street
Philadelphia, Pennsylvania 19107

Rates: \$189 Single / Double (plus tax)
Check-in: 4:00 p.m. Check-out: Noon

Located in the nation's first skyscraper, the hotel is a two-block walk from the Pennsylvania Convention Center.



REGISTRATION AND HOTEL INFORMATION

Hotel Reservations

AES continues to utilize Experient, Inc., for hotel reservation services. Confirm, modify or cancel your hotel reservation in real time, 24/7 at the [online registration and housing site](#). Rooms are available on a first-come, first-served basis.

Automated confirmations are sent immediately to your e-mail address unless the reservation is waitlisted. If you have not received your confirmation, please check your email spam folder for messages from Experient, Inc. You may also contact Experient, Inc. with questions at 800.974.9769 (domestic) or 847.996.5892 (international.)

Registration Discounts

Confirm your hotel room and save \$50 on your full Annual Meeting registration. AES continues to offer a \$50 registration discount to attendees who confirm a hotel room through Experient, Inc., the official AES Housing Bureau. This discount applies to all those who confirm a guest room *and* complete all registration requirements in one transaction by Friday, October 30, 2015.

Note: The discount does not apply to the One Day, Developing Countries, Group or Guest registration fees.

Waitlists

Each year, the AES headquarters hotel is a popular place to stay; rooms sell out quickly. However, availability continues to change. To be placed on a waitlist for the headquarters or any other preferred hotel, first select an available hotel. Then, click the "Room Request" box at the bottom of the "Room Occupants" page and enter the name of your preferred hotel. The housing bureau will do everything possible to confirm your first choice. Please be advised that waitlists are not guaranteed to clear.

A portion of the room rate at each hotel will be used to offset meeting expenses. Confirming your room using a preferred hotel allows AES to maintain consistent and competitive registration, exhibit space and other service fees from year to year. AES is financially liable if contractual obligations are not met. Therefore, everyone is encouraged to use the discounted hotel programs that have been arranged.

Housing Deadlines

The deadline for individual hotel reservations is Monday, November 9. The deadline for group reservations (10 or more rooms) is Monday, October 5. You are encouraged to make your hotel reservations early, as rooms may sell out prior to these dates.

Room Deposit/Cancellation Policy

A credit card (American Express, Discover, Diners Club, MasterCard or VISA) is required to guarantee a reservation. After Monday, November 23, a one night, non-refundable deposit (room and tax) representing the first night of your reservation will be charged to your credit card. Changes can be made to your reservation online or through the AES Housing Bureau until Monday, November 23 based on availability. Please contact your hotel directly after this date. Guests are responsible for all nights reserved, regardless of actual arrival or departures dates.

Early Departure Policy

Guests who check out of the hotel prior to the scheduled departure date will be charged a penalty of one night's room rate and tax.

Additional Hotel Information

- Check the arrival and departure date on your reservation confirmation to be sure you've requested the correct dates. Note: If you do not arrive at the hotel on the confirmed date, the hotel will resell your room and you will be charged the amount equal to one night's room charge plus tax.
- The current Philadelphia, PA hotel room tax rate is 15.5%. This rate is not included in hotel rate and is subject to change.
- Hospitality Suites are subject to availability. Please contact Experient, Inc., for layouts and rates. Hospitality activities must not conflict with official AES meeting activities. Guidelines are available at the AES website.
- AES is only able to assist guests with reservations if they have booked accommodations through Experient, inc.
- Reservations will not be accepted directly by participating hotels or AES.

Registration and Housing Customer Service



WEBSITE

Online Registration And Housing
[Click Here](#)



PHONE

800.974.9769 (US & Canada)
847.996.5892 (International)
Available Monday – Friday
9:00 a.m. – 5:00 p.m. (CST)



EMAIL

aes@experient-inc.com



PROGRAM
PREVIEW

EDUCATIONAL
SCHEDULE

AES FELLOWS PROGRAM

The goal of the AES Fellows program is to encourage and support epilepsy fellows in training to attend the AES Annual Meeting where they will receive the latest updates in clinical and basic science research. A breakfast and lunch will be provided to allow fellows the opportunity to meet and pair with mentors who will provide guidance regarding career planning, potential research paths and clinical endeavors. Following the breakfast the fellows will attend the Epilepsy Specialist Symposium and the Annual Fundamentals of Epilepsy Symposium, as well as the Hoyer Lecture. A panel of experts will present and discuss their experiences in the fields of research, and clinical and private practice. The 2015 Epilepsy Fellows program is supported by UCB with other industry support pending (as of June 15, 2015).

Nominations and application forms will be available on the AES website www.AESnet.org by mid-July. Nominations are limited to one fellow or trainee per institution and should be from approved epilepsy fellowships in the U.S. and Canada. Ninety-five fellows will be chosen, ten of whom will be nurses and Ph.D.s doing epilepsy research. Priority will be given to first time attendees.

8:30 a.m. – 11:30 a.m.

Epilepsy Specialist Symposium: Malformations of Cortical Development and Epilepsy

OVERVIEW

This symposium will present an update on MRI functions of cortical development and epilepsy. The classification scheme, imaging findings, clinical phenotypes will be presented. Medical and surgical paradigms will be addressed. As a result of attending this symposium, the attendee will recognize clinical and imaging features and classify MCD patients, ordering genetic testing, treatment and counseling.

LEARNING OBJECTIVES

- Recognize MRI and phenotype patterns of MCD, understands the genetics of MCD, initiates genetic studies and provides appropriate counseling
- Participates in the care and counseling of patients with MCD's
- Recognize the clinical presentation of MCD and the impact of MCD on psychological and neuropsychological function

TARGET AUDIENCE

Basic, Intermediate and Advanced (see page 4 for details)

PROGRAM

Co-chairs: Ruben Kuzniecky, M.D. and R. Edward Hogan, M.D.

Introduction

Ruben Kuzniecky, M.D.

Case Presentation

R. Edward Hogan, M.D.

Pathophysiology and Genetics of Cortical Malformations

Christopher Walsh, M.D.

Neuroimaging of Cortical Malformations

Ruben Kuzniecky, M.D.

Neurological Syndromes Associated with Cortical Malformations

Elliott Sherr, M.D., Ph.D.

Medical Management of Syndromes Associated with Cortical Malformations

Renee A. Shellhaas, M.D., M.S.

Surgical Management of Brain Developmental Anomalies

Dennis Spencer, M.D.

Case Summary and Conclusions

R. Edward Hogan, M.D.

CREDIT DESIGNATION

The American Epilepsy Society designates this live activity for a maximum of 3.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses may claim up to 3.0 contact hours for this session.

PHARMACY CREDIT

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 3.0 contact hours (0.30 CEUs). UAN 0077-9999-15-030-L01-P. Initial Release Date: 12/4/2015.

9:00 a.m. – 3:15 p.m.

29th Annual Advances in the Management of Epilepsy and the Epilepsy Clinic

Separate registration required — see instructions below.

This intensive one-day conference is designed for those professionals who participate in the care of persons with epilepsy. The overall purpose is to improve services to individuals and families affected by epilepsy. The conference is presented by the Department of Neurology of Wake Forest University School of Medicine, Winston-Salem, North Carolina, through an unrestricted grant committed to the education of health professionals, in an effort to promote the comprehensive care of those with epilepsy and their families.

Registration for this program is done separately from the AES Annual Meeting and begins on September 1, 2015. You may register by calling Wake Forest School of Medicine at 800.642.0500.

Up to 5.0 AMA Category 1 CME credit will be given.

12:30 p.m. – 3:00 p.m.

Annual Fundamentals of Epilepsy Symposium: Video-EEG Monitoring

OVERVIEW

This program will provide education regarding design, implementation and use of video-EEG. It will review how to utilize modern technology, safety protocols and nursing and physician practice to provide optimal care for patients with uncontrolled seizures. Effective use of video, interictal EEG, ictal EEG and intracranial EEG will be reviewed, and participants will learn how to integrate data obtained using these modalities. Sample cases will be used to further illustrate use of this method.

LEARNING OBJECTIVES

- Design and implement installation of a video-EEG monitoring unit, while also implementing safety measures
- Recognize when to make timely referrals of uncontrolled patients for diagnostic study
- Be able to provide better interpretation of video-EEG, providing more accurate diagnosis of non-epileptic events. Learner will more accurately identify surgical candidates with improved surgical outcome
- Counsel patients regarding the role of video-EEG and explain the process
- Using recognition of epileptic and non-epileptic behaviors, improve their ability to differentiate between seizures and psychogenic non-epileptic seizures and arrive at more accurate diagnoses

TARGET AUDIENCE

Basic and Intermediate (see page 4 for details)

AGENDA

Co-Chairs: Michael Sperling, M.D. and Elinor Ben-Menachem, M.D., Ph.D.

Introduction

Michael Sperling, M.D.

Creating an Epilepsy Monitoring Unit

Joseph Sirven, M.D.

Effective Use of Video

Nancy Foldvary-Schaefer, D.O., M.S.

Use and Interpretation of Scalp EEG

Michael Sperling, M.D.

Optimizing Use of Intracranial EEG

Jean Gotman, Ph.D.

Case Studies

Nathalie Jette, M.D.

Conclusions

Elinor Ben-Menachem, M.D., Ph.D.

CREDIT DESIGNATION

The American Epilepsy Society designates this live activity for a maximum of 2.5 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses may claim up to 2.5 contact hours for this session.

PHARMACY CREDIT

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 2.5 contact hours (0.25 CEUs). UAN 0077-9999-15-029-L01-P. Initial Release Date: 12/4/2015.

1:00 p.m. - 3:00 p.m.

Fellowship Program Director Meeting

Chair: David Ficker, M.D.

This second annual session is intended for current Epilepsy Fellowship Program Directors, Clinical Neurophysiology Program Directors and those interested in starting an ACGME Epilepsy Fellowship. This symposium will meet ACGME program requirement II.A.4, which advises that program directors attend one program director meeting per year. The objective of the symposium is to provide a forum for program directors to address challenges encountered in running a training program and in meeting accreditation expectations.

1:30 p.m. – 3:00 p.m.

Professional Development in AES: A Program for Junior Members and Those in Transition

The American Epilepsy Society invites all interested meeting attendees to come to a special session on volunteer and leadership opportunities within the Society. This session will be useful to trainees, basic scientists, clinicians and other allied health professionals (nurses, psychologists, Pharm.D.s) who want to know more about AES organizational structure or who want to become more involved. The session will provide an overview of the professional development and volunteering opportunities within the Society, followed by short presentations by members active in AES leadership. The session will end with a chance to meet with AES staff and committee leaders to learn more about available opportunities.

1:30 p.m. – 3:00 p.m.

Special Interest Group Meetings

Basic Mechanisms and Neuroscience: Interneuron Dysfunction and Epilepsy

Coordinators: Katty (Jing-Qiong) Kang, M.D., Ph.D., Amy Brewster, Ph.D. and Laura Jansen, M.D., Ph.D.

Speakers: Katty (Jing-Qiong) Kang, M.D., Ph.D., Jay Spampinato, Ph.D. and Eric Marsh, M.D., Ph.D.

The speakers will present evidence from animal models supporting a role for dysfunction of inhibitory interneurons in the pathogenesis of epilepsy. Ample time for questions and discussion will be allotted.

Neuroendocrinology: Oral Contraceptives — AED Interactions: Can OC Pills Exacerbate Seizures?

Coordinators: D. Samba Reddy, Ph.D., R.Ph.

Speakers: Andrew Herzog, M.D., Ann Davis, M.D. and D. Samba Reddy, Ph.D., R.Ph.

Contraceptive management in women with epilepsy is critical owing to the potential maternal and fetal risks if contraception or seizure management fails. Hormonal contraception, including the use of oral contraceptives (OCs), is widely used in many women with epilepsy. There is contention that the use of OCs may increase the risk of seizures in women with epilepsy. Although some reports suggest that OCs might exacerbate seizures, most studies show no effect of estrogen-based contraceptives on seizure frequency. However, there are many factors to consider in the choice of AED therapy and hormonal contraception, since some AEDs can reduce the efficacy of OCs owing to pharmacokinetic interactions. In this SIG, the potential OC — AED interactions will be discussed, with emphasis on whether the use of OC exacerbates seizures and their neuroendocrine mechanisms.

Neuropsychology: Comparison of Neuropsychological Methods and Research Programs in North America and Internationally.

Coordinator: Gail L Risse, Ph.D.

Speakers: Members of the ILAE Neuropsychology Commission

AES members who are also part of the Neuropsychology Commission of ILAE will present an update on the work of that commission including international clinical and research programs involving the neuropsychology of epilepsy with the objective of stimulating collaborative international research projects.

SUDEP: Are We Ready for Trials of SUDEP Prevention in People with Epilepsy?

Coordinators: Lisa Bateman, M.D., Daniel Friedman, M.D. and Gordon Buchanan, M.D., Ph.D.

Speakers: Cynthia Harden, M.D., Tobias Loddenkemper, M.D., Masud Seyal, M.D., Ph.D., David Patterson, M.D. and Dale Hesdorffer, Ph.D.

Efforts to develop AAN/AES Guidelines on SUDEP highlight our limited understanding of clinical risk factors and potential mechanisms of SUDEP. In this session, we will review the guidelines with a particular focus on the evidence for interventions to reduce SUDEP risk. We will then discuss whether the current state of knowledge regarding the pathophysiology and epidemiology is sufficient to design studies of SUDEP prevention. Speakers will discuss the roles of seizure detection devices, specific medications and public health measures in preventing SUDEP and the barriers to performing meaningful trials of these interventions. We will also examine lessons learned from SIDS prevention. Finally, we will provide a forum for the epilepsy community to discuss these and/or other potential interventions and identify the best strategies to test and implement them to reduce epilepsy mortality as soon as possible.

3:30 p.m. – 5:30 p.m.

13th Judith Hoyer Lecture in Epilepsy

Lecturer: Jacqueline A. French, M.D.

Award Presentation: AES Service Award

The 13th Judith Hoyer Lecture in Epilepsy, presented by invited Lecturer Dr. French, is sponsored by the National Institute of Neurological Disorders and Stroke. This series is held in memory of Mrs. Judith Hoyer, an active member of the Board of Directors of the Epilepsy Foundation and the late wife of U.S. Representative Steny Hoyer (DM.D.). Mrs. Hoyer spent her life both helping families to cope with epilepsy and promoting research into a cure and a better quality of life for those with the disorder. The purpose of the lecture is to raise awareness of epilepsy among researchers and the public and provide intellectual stimulation that will encourage continuing progress toward finding a cure for epilepsy.

3:30 p.m. – 6:00 p.m.

Spanish Symposium: Frontal Lobe Epilepsy

OVERVIEW

The symposium will provide an overview of frontal lobe epilepsy, especially the clinical semiology of seizures and the comorbidities associated to intractable cases, with special reference to neuropsychological aspects which affect quality of life including social and psychological development. It will also provide an overview of current practices in Spanish

speaking countries to identify intractable cases and refer to surgical management especially in the setting of limited resources.

LEARNING OBJECTIVES

- Recognize clinical semiology and comorbidities of intractable frontal lobe epilepsy
- Evaluate patients with frontal lobe seizures utilizing ictal video-EEG monitoring
- Utilize standard protocols for presurgical planning and surgical management
- Recognize comorbidities of frontal lobe epilepsy. Learners use standardized protocols in neuropsychological assessment and follow-up, to evaluate surgical outcomes

TARGET AUDIENCE

Basic and Intermediate (see page 4 for details)

PROGRAM

Co-chairs: Patricio Abad, M.D. and Mario A. Alonso-Vanegas, M.D.

Introduction

Patricio Abad, M.D.

Semiology of Frontal Lobe Epilepsy

Jaime Parra, M.D., Ph.D.

Neuropsychological and Behavioral Problems in Frontal Lobe Epilepsy

Andres Kanner, M.D.

Presurgical Evaluation of Frontal Lobe Epilepsy

Daniel San Juan Orta, M.D.

Surgical Management of Frontal Epilepsies

Arthur Cukiert, M.D., Ph.D.

Roundtable Discussion

Mario A. Alonso-Vanegas, M.D. and All Faculty

CREDIT DESIGNATION

The American Epilepsy Society designates this live activity for a maximum of 2.5 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses may claim up to 2.5 contact hours for this session.

PHARMACY CREDIT

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 2.5 contact hours (0.25 CEUs). UAN 0077-9999-15-037-L01-P. Initial Release Date: 12/4/2015.

6:00 p.m. – 7:30 p.m.

Special Interest Group Meetings

Children’s Hour: FIRES

Coordinators: Elaine Wirrell, M.D. and Rima Nabbout, M.D., Ph.D.

Speakers: Katherine Nickels, M.D., Uri Stephani and Catherine Chiron, M.D., Ph.D.

Session will address clinical presentation and DDx, Outcomes and Treatments.

Frontal Lobe Epilepsy: Alterations of Cortical Networks in Frontal Lobe Epilepsy — Relation to Seizures and Cognition

Coordinator: Andrea Bernasconi, M.D.

Speakers: William D. Gaillard, M.D., Paolo Federico, M.D., Ph.D., F.R.C.P.C. and Matthias Koepp, M.D. Ph.D.

Frontal lobe epilepsy is the second most common type of localization-related epilepsy that undergoes surgical treatment, and probably the most challenging in terms of surgical management. Seizures have an impact on the cortical organization of the frontal lobe. Speakers will discuss recent advanced structural and functional MRI data showing seizure-related network alterations in main functional regions, including the motor cortex and language areas.

MEG/MSI: A Loud Buzz from Resting MEG — Forget Spikes, It’s Networks!

Coordinators: Anto Bagic, M.D., Ph.D. and Michael E. Funke, M.D., Ph.D.

Speakers: Susan Bowyer, Ph.D. and TBA

Although it has been increasingly accepted that very valuable clinical information is buried in the traditionally ignored brain’s “resting activity”, it is a relatively novel direction in clinical research to make inferences about epileptic brains’ characteristics from “non-epileptiform MEG activity”. While traditional “spikes or sharps” remain a holy grail of clinical epilepsy, after oscillations “outside of Berger’s bands” have been accepted as biomarkers of epileptic tissue, multiple “resting” including “epileptic networks” have been inferred recently from resting MEG without interictal epileptiform discharges. Practically speaking, increasing evidence suggests that an accurate localization of the epileptogenic focus may be attainable using noninvasive spontaneous “resting-state” activity without the need to capture interictal and/or ictal discharges. This not only brings additional dimension to our understanding of epilepsies, but potentially opens up new clinical possibilities. Further meticulous research is necessary to elucidate how inferences made from “resting state activity without interictal epileptiform discharges” exactly relate to those made from traditional “epileptiform abnormalities” and even their possible role in an early diagnosis, better

localization, improved treatment and brighter prognosis of epilepsy. The program focuses on the experts' discussions of the latest neurophysiologic and imaging evidence for understanding this intriguing issue.

Neuropharmacology: Psychoactive Medications and Seizures — Challenges and Pitfalls

Coordinators: Laura Strom, M.D. and Mitra Habibi, Pharm.D.

Speakers: Mesha-Gay Brown, M.D. and Archana Shrestha M.D.

This SIG focuses on individuals with a common interest in neuropharmacology and epilepsy. Psychiatric disorders present a significant co-morbidity associated with epilepsy, therefore, psychoactive medications are often used in order to optimize the medical treatment of this population. There is potential for these medications to have an impact on seizure threshold and concern about pharmacokinetic interactions between antiepileptic and other psychoactive drugs. Some psychoactive medications may also have an effect on the EEG. This year's session will address some of the known electrographic changes associated with specific psychoactive medications including antipsychotics, antidepressants and stimulants. Furthermore, we will also discuss seizure provocation with the use of these medications in patients with and without epilepsy.

Tuberous Sclerosis

Coordinator: Peter Crino, M.D., Ph.D.

Speakers: Peter Crino, M.D., Ph.D., Guy McKhann, M.D. and Howard Weiner, M.D.

Over the past decade, a number of distinct neurosurgical approaches have been developed for epilepsy and tumor surgery in tuberous sclerosis complex (TSC). The current TSC SIG will focus on several phases of neurosurgical therapy in TSC including pre-operative evaluation of TSC patients with intractable epilepsy or subependymal giant cell astrocytoma (SEGA), differential strategies for surgical intervention in TSC, focal versus larger scale resection, multi-staged approaches, disconnection surgery and device-based therapies. These approaches will be considered in the context of the recent availability of medical therapy with mTOR inhibitors.

Tumor-induced Epilepsy: Metastatic Disease

Coordinators: Jeffrey Politsky, M.D., F.R.C.P.C. and Sandeep Mittal, M.D.

Speakers: TBA

The initial sub-topic list included: prevalence of treatment of seizures and status epilepticus; paraneoplastic disease; complications of systemic treatment.

6:00 p.m. – 7:30 p.m.

Basic Science Skills Workshop

Pre-registration and tickets are required for this session. An additional \$50 registration fee applies; maximum of 30 people per session.

EEG Monitoring in Experimental Rodent Models of Epilepsy

Moderators: Atul Maheshwari, M.D. and F. Edward Dudek, Ph.D.

This interactive workshop for basic scientists will primarily focus on EEG monitoring, acquisition and data analysis in mouse and rat models of epilepsy.

7:00 a.m. – 8:30 a.m.

Special Interest Group Meetings

Cognitive and Behavioral Interventions for Epilepsy: Therapeutic Elements of Specific Psychobehavioral Interventions

Coordinators: Lauren Frey, M.D., Rosa Michaelis, M.D., Marcio SoteroDeMenezes, M.D., Siegwald Elsas, M.D. and Steve Schachter, M.D.

Speakers: Markus Reuber, M.D., Ph.D., F.R.C.P., Michael Privitera, M.D. and Barbara Jobst, M.D.

To follow up on recent previous SIG session topics of: (1) hypothesized mechanisms, and (2) the scientific evaluation of cognitive and behavioral interventions for epilepsy, this year's session will focus on the presentation of specific therapeutic elements of cognitive and behavioral interventions that will each be presented within the framework of their scientific evaluation. Three interventions will be presented that delivery mode ranges from face-to-face therapy sessions, cell phones and telephone sessions and target outcome parameters ranging from quality of life, seizure frequency and cognitive dysfunction:

1. **Acceptance and Commitment Therapy:** This intervention approach incorporates mindfulness and behavior change processes aimed at addressing the main problems that patients perceive as related to their diagnosis of epilepsy. A recent study prospectively evaluated Acceptance and Commitment Therapy for patients with refractory epilepsy using a patient workbook promoting the patient's psychological flexibility. The primary aims of this study were to assess the effects of the intervention on measures of health-related quality of life, social adjustment, self-esteem, depression and anxiety, as well as to evaluate the cost-effectiveness of the therapy program. In addition, the effects of the intervention on seizure frequency were explored as a secondary outcome.
2. **Progressive Muscle Relaxation:** The results of the first large-scale randomized controlled trial of a stress reduction intervention for epilepsy will be presented.
3. **HOBSCOTCH:** HOme Based Self-management and COgnitive Training CHanges lives: This project consists of developing and testing a home-based self-management program, HOBSCOTCH, in the adult epilepsy population. HOBSCOTCH is an easy to implement, cost-effective intervention to treat memory complaints and subsequently quality of life in epilepsy patients, while minimizing the barriers of access to care. The program teaches problem-solving strategies and compensatory mechanisms to help manage cognitive dysfunction. The primary outcome measured is improvement in quality of

life including subjective memory perception. Secondary outcomes are objective memory function, executive and depressive symptoms as measured by validated scales.

EEG: Tools for Collaborative EEG Research

Coordinators: Susan Herman.M.D. and Kitti Kaiboriboon, M.D.

Speakers: Sándor Beniczky, M.D., Ph.D., Jonathan Halford, M.D. and Jong Woo Lee, M.D., Ph.D.

Clinical research on EEG is essential to develop new EEG techniques and to establish their utility in clinical practice. Once these techniques are more widely used, additional research is needed to determine optimal use, yield and cost-effectiveness. Further research studies are needed to validate higher order processing of EEG data, such as automatic spike and seizure detection algorithms, quantitative EEG trends, seizure prediction and source localization. Many of these techniques compare results to "gold standard" review and visual scoring by expert electroencephalographers. Because large numbers of subjects and EEGs are usually required for these studies, it is often costly to collect, score and share data. Time and expense can be reduced by developing shared research tools. In this session, we will discuss several large EEG consortia projects, focusing on development of shared research tools, such as datashare agreements, IRB agreements, common terminology and EEG scoring criteria, databases, and data storage and access platforms.

Nursing: Research Process for Nurses

Coordinators: Tara Myers, C.P.N.P. and Wendy Miller, Ph.D., R.N., C.C.R.N.

Speakers: TBA

In an effort to get more nurses involved in research in the field of epilepsy, we have discussed providing education and guidance on the research process. This session will focus more on those nurses and nurse practitioners in clinical practice who may have not had formal education in research typically found in a Ph.D. program.

Private Practice: Private Practice Epilepsy in the Changing World of Health Care

Coordinators: Marcelo Lancman, M.D. and Pavel Klein, M.D.

Speakers: Mark Mintz, M.D., David Anshel, M.D. and Pavel Klein, M.D.

Over the last couple of years, the consortium of private epilepsy centers has brought together diverse private epilepsy centers with a wide scope of different experiences in clinical, business and research practices. This has benefited members in the sharing of experiences and, increasingly, in forging together common approaches to the challenges of the specialized medical practice in the current changing health

care environment. We will discuss several topics related to position of private practice centers in the changing health care environment. We will address the issue of cost-based health care delivery as a possible replacement of the current fee for service model, ACOs and how epilepsy centers can proactively become involved in that process. We will discuss ways of how increasing regulation and decreasing payments impact clinical practice, and potential ways dealing with the regulatory burdens such as AED and procedural preauthorization and denials. Finally, we will discuss collaborative research opportunities both in pharmaceutical and non-pharmaceutical epilepsy studies, with specific examples of each, and possibilities of the SIG and the consortium in catalyzing participation in research by practices with research interest who are not currently involved in research, and collaboration in research between practices already engaged in research.

Sleep in Epilepsy: Effect of NREM/REM Dychotomy on Seizure Frequency

Coordinators: Milena Pavlova, M.D. and Erik St. Louis, M.D.

Speakers: Marcus Ng, M.D. and Mark Bower, M.D.

Seizure frequency is different in different sleep stages. The mechanisms responsible for this difference are not fully clear, however recent evidence suggests that the neuronal assembly specific for each stage may be responsible. This session will examine NREM and REM sleep separately in terms of seizure frequency and potential basic mechanisms for this pattern.

Temporal Lobe Club: Why Is It So Difficult to Get Psychiatrists as Members of the Epilepsy Surgery Team and What Can We Do About It?

Coordinators: Andy Kanner, M.D., F.A.N.A. and Jerome Engel, M.D., Ph.D.

Speakers: John Barry, M.D. and Jay Salpekar, M.D.

Psychiatric evaluation and support are considered an essential part of the pre- and postoperative care for patients undergoing surgical treatment for epilepsy, yet very few epilepsy surgery centers have a psychiatrist as an integral part of their multidisciplinary team. This session will present the current situation of psychiatric participation at epilepsy surgery centers, examine the possible reasons for deficits in support, and explore possible solutions.

8:30 a.m. – 11:45 a.m.

Presidential Symposium: Getting to Cure — The Challenging Road to Disease Modification and Prevention for Epilepsy

OVERVIEW

Epilepsy care has focused on symptomatic treatment, that is, control of seizures. Modification of disease progression, underway in other clinical areas, has not been a focus of epilepsy research until recent years. Translation from the bench to the clinic requires collaboration among scientists, clinical researchers and clinicians. This symposium will address the development of clinical trials for disease-modifying therapies including issues which can adversely impact successful outcomes.

LEARNING OBJECTIVES

- Recognize role of treatments which can result in disease modification and be aware of research into such treatments
- Basic scientists and clinical researchers will collaborate on developing appropriate studies to evaluate potential disease-modifying treatments

TARGET AUDIENCE

Basic, Intermediate and Advanced (see page 4 for details)

PROGRAM

Chair: Amy Brooks-Kayal, M.D.

Introduction: Why Make the Journey: The Need for DMAp Therapies for Epilepsy

Amy Brooks-Kayal, M.D.

Picking Your Route: How Do We Identify and Validate Targets for Disease Modification?

Manisha Patel, Ph.D.

Beginning the Journey: The Path to Phase I

Rajesh Ranganathan, Ph.D.

The Road Less Traveled: Novel Approaches to Successful Translation of Disease-modifying Therapy

Kate Dawson, M.D.

Detours and Misdirections: Cautionary Tales of Translation Failures

Emily Sena, Ph.D.

Getting to Cure: A Path Forward for Disease-modifying Therapy for Epilepsy

Robert Pacifici, Ph.D.,

Conclusions

Amy Brooks-Kayal, M.D.

CREDIT DESIGNATION

The American Epilepsy Society designates this live activity for a maximum of 2.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses may claim up to 2.75 contact hours for this session.

Nurse Practitioners may claim 1.5 hours of pharmacology for this session.

PHARMACY CREDIT

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 2.75 contact hours (0.275 CEUs). UAN 0077-9999-15-035-L01-P. Initial Release Date: 12/5/2015.

Noon – 6:00 p.m.

Poster Session One

Noon – 6:00 p.m.

Exhibit Hall

2:15 p.m. – 5:00 p.m.

Epilepsy Therapy Symposium: What You Need to Know to Get Your Patient into the 65% Group!

OVERVIEW

This symposium will guide the attendee in managing epilepsy patients from initial diagnosis to consideration of resective epilepsy surgery. Guidelines will be presented providing best practice for initiating anti-seizure drug therapy. Attendees will learn ways to recognize and manage drug "failures" that are not due to lack of drug efficacy. Updated information on best practices for rational polypharmacy to obtain the best patient outcomes will be presented. Newer nonpharmacologic treatments for patients who continue to have seizures despite adequate trials of anti-seizure medications will also be presented. The concept of anti-epileptic versus anti-epileptogenic therapy for seizures will be discussed in a practical, clinically-based approach.

LEARNING OBJECTIVES

- Learn to manage new onset epilepsy utilizing evidence based practices
- Counsel patients and families regarding appropriate non-pharmacologic treatments
- Participate in counseling patients families about the importance of medication adherence to ensure maximum treatment efficacy
- Recognize risk factors for non-adherence to medication recommendations and counsels patients regarding adherence

TARGET AUDIENCE

Basic and Intermediate (see page 4 for details)

PROGRAM:

Co-Chairs: Jerry Shih, M.D. and Cynthia Harden, M.D.

Introduction

Jerry Shih, M.D.

Treatment Strategies for Newly Diagnosed Epilepsy

Emilio Perucca, M.D., Ph.D.

When is "Drug Failure" Not a Drug Failure

Patrick Kwan, M.D., Ph.D.

Rational Polypharmacy – What Is the Evidence?

Josiane Lajoie, M.D.

Update on Nonpharmacologic Treatments

Christopher Skidmore, M.D.

Disease Modifying Therapies – Current Status

Andrew Cole, M.D.

Conclusion

Cynthia Harden, M.D.

CREDIT DESIGNATION

The American Epilepsy Society designates this live activity for a maximum of 2.5 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses may claim up to 2.5 contact hours for this session.

Nurse Practitioners may claim 2.5 hours of pharmacology for this session.

PHARMACY CREDIT

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 2.5 contact hours (0.25 CEUs). UAN 0077-9999-15-031-L01-P. Initial Release Date: 12/5/2015.

2:30 p.m. – 4:00 p.m.

Investigators' Workshops

Genetics, Biology and Treatment of the Early Life Epilepsies

Moderators: Annapurna Poduri, M.D.

Speakers: Alex Paciorkowski, M.D., Ghayda Mirzaa, M.D. and Anne Berg, Ph.D.

Energy Metabolism and Dynamic Brain States

Moderator: Chris Dulla, Ph.D.

Speakers: Mark Beenhakker, Ph.D., Christophe Bernard, Ph.D. and Susan Masino, Ph.D.

5:30 p.m. – 7:30 p.m.

Translational Research Symposium: Rigor in Translational Research — Issues, Experience and Solutions

OVERVIEW

Clinicians are knowledgeable about interpretation of clinical trials but have limited knowledge of pre-clinical discovery and development of therapeutic agents and devices. This symposium will address critical issues identified by AES and ILAE working groups that require solutions in order to facilitate and promote translational research in therapeutic development for epilepsy and related co-morbidities. Problems in reproducing pre-clinical research have increased the risk of embarking on programs for development of new therapies for venture and industrial sponsors. Multiple academic studies have documented the high rate of failure to reproduce critical preclinical studies. Criteria to increase the rigor, and therefore the reproducibility of preclinical work have been identified; initial efforts to implement these strategies have identified challenges and opportunities, as well as critical resources required to achieve the goal of increasing rigor. Finally, effective communication of positive and negative results, as well as reproducibility and validation studies requires novel publication models. This symposium states the problem, examines the components required to achieve rigor, reviews recent experience in designing and conducting studies designed to meet proposed criteria, and concludes with a discussion of the effects of publication bias and a description of a novel publication platform designed to serve the needs of the translational research community. In addition to addressing issues in research methodology for researchers, the information presented at this symposium will allow clinicians to better assess new therapeutic options.

LEARNING OBJECTIVES

- Articulate barriers to translation in the existing system and assess preclinical data for rigor and robustness
- Learner appreciates limitations in our current publications
- When making clinical decisions regarding management of patients, learner uses understanding of the impact of inadequate pre-clinical data on the development of new therapeutics
- Recognize the limitations of available preclinical data when counseling patients regarding use of medications

TARGET AUDIENCE

Intermediate and Advanced (see page 4 for details)

PROGRAM

Chair: Andrew Cole, M.D..

Introduction

Andrew Cole, M.D.

Crisis in Translation: Perespective from the NIH

Walter Koroshetz, M.D.

Rigor in Pre-Clinical Studies and Reproducibility of Published Research Findings

Shai Silberberg Ph.D.

Practical Experience in Achieving Pre-clinical Rigor

Kevin Staley, M.D., Ph.D.

Stuck in Translation: A Crisis of Commitment?

Annamaria Vezzani, Ph.D.

Shared Data Platforms: Efficiency, Integrity, Fairness and Utility

M. Brandon Westover, M.D., Ph.D.

Publication Bias: When Data Is AWOL

Michael Rogawski, M.D., Ph.D.

Conclusions

Andrew Cole, M.D.

CREDIT DESIGNATION

The American Epilepsy Society designates this live activity for a maximum of 2.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses may claim up to 2.0 contact hours for this session.

PHARMACY CREDIT

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 2.0 contact hours (0.20 CEUs). UAN 0077-9999-15-038-L01-P. Initial Release Date: 12/5/2015.

5:30 p.m. – 8:00 p.m.

Professionals in Epilepsy Care Symposium: Interprofessional Models and Collaborative Care

OVERVIEW

Recent research and practice recommendations include that health professionals must work collaboratively to improve the delivery of care and outcomes for patients and families (RWJ, 2011). Interprofessional competency domains that all health care providers must address include values/ethics for interprofessional practice, roles/responsibilities, interprofessional communication and teams and teamwork (IPEC, 2011). The IOM Report on epilepsy includes the recommendation to research and develop a quality framework for epilepsy care to increase access to care, quality of life and health outcomes (England et al., 2012). This symposium will present recent research and practice evidence

regarding how providing interprofessional care assists health care teams to provide comprehensive lifespan care for persons with epilepsy and their families. Examples of existing interprofessional models of care will be reviewed in populations such as children, adolescents, adults and veterans. In addition, possible interventions to accommodate lack of resources and funding for interprofessional care models will also be addressed.

LEARNING OBJECTIVES

- Define interprofessional care collaboration and competencies
- Evaluate existing interprofessional models of care for patients and families with epilepsy
- Consider the development of strategies to meet specific patient/family care needs by optimizing patient care by using the unique and complementary abilities of all members of the team in an epilepsy center or community setting

TARGET AUDIENCE

Basic and Intermediate (see page 4 for details)

PROGRAM

Co-chairs: Gigi Smith, M.S.N., C.P.N.P., Ph.D. and Janelle Wagner, Ph.D.

Introduction

Janelle Wagner, Ph.D.

A Model of Integrated Behavioral Health

Shanna Guilfoyle, Ph.D.

Using Medical Homes and Telehealth to Reach Pediatric Epilepsy Patients

Rick Boyle, M.S.Ed.

Caring for Individuals with Epilepsy and Developmental Disabilities: Collaborations with Developmental Behavioral Pediatrics

Jane Charles, M.D.

Collaborative Care of the Epilepsy Patient in the VA System

Karen Parko, M.D.

Conclusions

Gigi Smith, Ph.D.

Faculty Panel

All Faculty

CREDIT DESIGNATION

The American Epilepsy Society designates this live activity for a maximum of 2.5 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses may claim up to 2.5 contact hours for this session.

PHARMACY CREDIT

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 2.5 contact hours (0.25 CEUs). UAN 0077-9999-15-033-L01-P. Initial Release Date: 12/5/2015.

7:00 p.m. – 10:00 p.m.

Fourth Annual Wine Tasting and Silent Auction

Additional fee applies: more information available in September.

Join your peers for a fun, casual evening raising funds for epilepsy research and education through basic science and clinical fellowships.

8:00 a.m. - 4:00 p.m. Poster Session Two

8:00 a.m. - 5:00 p.m. Scientific Exhibits

8:30 a.m. - 5:00 p.m. ASET LTM Course: Setting Up For Success In Long Term Monitoring *Separate registration required. See instructions below.*

This one-day course is sponsored by ASET – The Neurodiagnostic Society. This course is designed for nurses, technologists and physicians who work in an epilepsy monitoring program (LTM and ICU monitoring) with the goal of building the most successful service possible. Several essential components of epilepsy monitoring will be discussed in depth:

- Selecting the right equipment configuration, software and networking features
- Initiating quality improvement initiatives to ensure efficient monitoring sessions, reduce the length of stay and implement patient safety measures
- Preventing skin breakdown and electrode-related injuries
- Designing staffing models to address patient needs 24/7
- Managing data during and after acquisition to enable rapid interpretation and intervention

To register for this course, please visit the [ASET website](#). The registration fee for this course is \$125. The full course schedule and faculty will be posted on the ASET website.

8:45 a.m. to 4:45 p.m. Investigators' Workshops

These workshops, conducted informally and designed to encourage interaction, will address several important areas of rapidly-emerging knowledge in clinical and basic research in epilepsy. The workshops are intended to identify challenges in current research, propose methods to overcome those challenges and encourage areas for future investigation.

The Basic Science Investigator Workshops will highlight a number of research areas that have been developing rapidly over the last year. Participants include established and junior epilepsy investigators as well as researchers outside the epilepsy community who have specialized expertise that may be applied to epilepsy basic science. In addition, one of the workshops features presentations by junior investigators in cutting-edge areas of research.

The Clinical Investigators' Workshops provide a series of working seminars in matters of active clinical investigation and

controversy. Speakers present results from their ongoing research and place their findings in the context of current understanding.

Most of the workshops will run as concurrent sessions on Sunday, with a single workshop on Saturday afternoon on cannabis and epilepsy and another Monday afternoon on stem cells.

TARGET AUDIENCE

Basic scientists, neurologists, neuroscientists, pharmacologists, neuropsychologists and neurosurgeons who are performing research in epilepsy.

PROGRAM

Investigators' Workshop: Michael Wong, M.D., Ph.D.

Clinical Investigators' Workshop: Edward J. Novotny Jr. M.D.

Morning Session I: 8:45 a.m. - 10:15 a.m.

1. **Translational Investigators' Workshop**
Moderator: Martha Morrell, M.D.
Speakers: TBA
2. **Idiopathic Childhood Epilepsy Syndromes: Can We Consider Them Benign?**
Moderator: Jeffrey Tenney, M.D., Ph.D.
Speakers: Jennifer Vannest, Ph.D., Tracy Glauser, M.D. and David Loring, Ph.D.
3. **Emerging Technologies for Imaging the Neural Circuits Underlying Seizures**
Moderators: Karen Wilcox, Ph.D. and Doug Coulter, Ph.D.
Speakers: Jin Hyung-Lee, Ph.D., Hajime Takano, Ph.D. and Kyle Lillis, Ph.D.

Morning Session II: 10:30 a.m. – noon

4. **A Model Approach for Developing Antiepileptogenic Drugs: Targets, Biomarkers and Barriers in Tuberous Sclerosis**
Moderators: Mike Wong, M.D., Ph.D. and Darcy Kreuger, M.D., Ph.D.
Speakers: Joyce Wu, M.D., Martina Bebin, M.D., M.P.A. and Mike Wong, M.D., Ph.D.
5. **MR-Guided Stereotactic Laser Ablation of the Hippocampus and Amygdala: Reducing Collateral Damage**
Moderator: John W. Miller, M.D., Ph.D.
Speakers: Daniel Drane, Ph.D., Robert Gross, M.D., Ph.D. and John Miller, M.D., Ph.D.
6. **Role of Potassium Ions and Channels in Shaping Seizure Dynamics**
Moderator: Omar Ahmed, Ph.D.
Speakers: Attila Gulyas, M.D., Ph.D., Steven Schiff, M.D., Ph.D. and Bernardo Rudy, M.D., Ph.D.

Poster Sessions (Lunch): Noon – 1:30 p.m.

Afternoon Session I: 1:30 p.m. – 3:00 p.m.

7. **Using Functional Connectivity to Target Stimulation Therapy for Epilepsy and Its Comorbidities**

Moderator: Bernard Chang, M.D.

Speakers: Mouhsin Shafi, M.D., Ph.D., Michael Fox, M.D., Ph.D. and Stephen A. VanHaerents, M.D.

8. **Targeting Mitochondrial Function as an Antiseizure Strategy**

Moderators: Kristina Simeone, Ph.D. and Manisha Patel, Ph.D.

Speakers: Elizabeth Jonas, M.D., Timothy Simeone, Ph.D. and Lindsey Gano, Ph.D.

9. **Hot Topics and Late-breaking Research from Young Investigators in the Epilepsy Community**

Moderators: Mike Wong, M.D., Ph.D. and

Viji Santhakumar, Ph.D.

Altered Metabolism in a Zebrafish Model of Dravet's Syndrome

Maneesh Kumar, M.D., Ph.D.

Functional Evidence for Selective Activation in a Subset of Developing Hippocampal Neurons in Early Life Seizures

Hongyu Sun, M.D., Ph.D.

Genetic and Pharmacological Targeting of $\alpha 2\delta$ -1 Prevents Pathological Synaptogenesis and Epileptogenic Circuit Reorganization Following Neonatal Cortical Insult

Lauren Anderson

Ictal Patterns of Local Field Potentials, High Frequency Oscillations and Unit Activity in Human Mesial Temporal Lobe Epilepsy

Shennan Aibel Weiss, M.D., Ph.D.

Afternoon Session II: 3:15 p.m. – 4:45 p.m.

10. **Cutting Edge Technologies for Multi-Scale Recording in Epilepsy**

Moderator: Brian Litt, M.D.

Speakers: Duygu Kuzum, Ph.D., Adam Cohen, Ph.D. and Lee Bassett, Ph.D.

11. **Spikes and Cognition: Should We Treat Spikes?**

Moderator: Tobias Loddenkemper, M.D.

Speakers: Ivan Sanchez Fernandez, M.D, Kevin Chapman, M.D. and TBA

12. **The Role of Fragile X Mental Retardation Protein in Epilepsy, Ion Channels, and Behavioral Comorbidities**

Moderators: Joaquin Lugo, Ph.D. and Amy Brewster, Ph.D.

Speakers: Christina Gross, Ph.D., Tim Benke, M.D., Ph.D. and Joaquin Lugo, Ph.D.

8:45 a.m. – 5:15 p.m.

Annual Course: Epilepsy and the Media

OVERVIEW

This year's Annual Course will focus on the complex relationship between patients with epilepsy, their treating neurologists and other care providers, and the media. This topic is very timely in light of the growth and impact of the Internet and social media. The Annual Course will delve into detail about the way information is portrayed and communicated about epilepsy through the media. Rather than the usual case vignettes, vignettes will focus on the common interactions over the course of a working day between an epileptologist and patients, families and caregivers focused on media-provided information. Didactic lectures and debates will be combined with illustrative examples, interspersed before breaks. Topics will include seizure detection (dogs and devices), driving rules, cannabidiols and SUDEP.

LEARNING OBJECTIVES

- Recognize the complex relationship between physicians and the media in regards to epilepsy and has an improved ability to be interviewed, answer patient questions about media reports and effectively responds to media-generated debates about topics such as seizure detection devices, SUDEP, driving restrictions, cannabidiols and epilepsy stimulation techniques
- Be able to answer patient/care giver questions about media reports related to epilepsy care including discussions of seizure detection devices, SUDEP, driving restrictions, cannabidiols, and epilepsy stimulation techniques
- Become aware of the issues related to controlled substances, black box warnings and teratogenicity as well as the evidence for and against utilization of cannabidiol for epilepsy treatment
- Be aware of the impact of media reports on patient decision-making on topics such as new detection devices, driving and therapies. Learner utilizes resources provided by patient advocacy support groups to assist in addressing psychological functioning of patients

TARGET AUDIENCE

Basic, Intermediate and Advanced (see page 4 for details)

PROGRAM

Chair: Eric Kossoff, M.D.

Diagnostic Issues and the Media

8:45 a.m. **Introduction: The Complex Interaction of Patients, Physicians and the Media**
Eric Kossoff, M.D.

8:55 a.m. **"8:00 am: A Facebook Friend Request"**
Akila Venkataraman, M.D.

9:00 a.m. **Lecture: Should You Friend Your Patients? Facebook and Social Media**
Adam Hartman, M.D.

9:25 a.m. **Lecture: Epilepsy and the Internet**
Patty Shafer, M.N., R.N.

9:50 a.m. **Debate: Dogs and Devices: Does Seizure Detection Work?**
Elizabeth Donner, M.D. (Pro)
Gregory Krauss, M.D. (Con)

10:20 a.m. **Break**

10:35 a.m. **"Noon: A Seizure-related Crash on the News"**
Kathryn Davis, M.D.

10:40 a.m. **Flash Panel: Advocacy Groups and Their Role with the Media Epilepsy Foundation**
Phil Gattone, M.Ed.

CURE

Susan Axelrod

Lennox Gastaut Syndrome Foundation
Christina SanInnocencio, M.S.

Epilepsy Information Service
Pat Gibson, M.S.SW.

11:20 a.m. **Lecture: SUDEP and Media Resources**
Lisa Bateman, M.D.

11:35 a.m. **Lecture: Driving Accidents in the News, What Is Our Role with the MVA?**
Allan Krumholz, M.D.

11:50 a.m. **Morning Wrap-up**
Eric Kossoff, M.D.

Noon-2 p.m. **Lunch Break in Exhibit Hall**

Treatment Innovations and the Media

2:00 p.m. **Introduction to the Afternoon Session**
Eric Kossoff, M.D.

2:05 p.m. **"5pm: CNN Interview about Surgery Alternatives"**
Lara Jehi, M.D.

2:10 p.m. **Lecture: Doing Media Interviews: AES Policy and Advice**
William Theodore, M.D.

2:30 p.m. **Lecture: RNS, VNS, DBS, Oh My!**
Christianne Heck, M.D.

2:55 p.m. **Debate: Laser Surgery Is the Best Option**
Dan Curry, M.D. (Pro)
Kristen Riley, M.D. (Con)

3:25 p.m. **Break**

3:40 p.m. **"9pm: A Cocktail Hour Question about Cannabis"**
Kelly Knupp, M.D.

3:45 p.m. **Lecture: Getting Your Message to the Public: How to Navigate the World of Reporters and Lawyers**
Robert Field, Ph.D., J.D.

4:05 p.m. **Lecture: Epilepsy Journals and Free Access for Patients — A Good Idea?**
Steven Schachter, M.D.

4:25 p.m. **Debate: Cannabidiol — Helpful or Just Reefer Madness?**
Elizabeth Thiele, M.D., Ph.D. (Pro)
Eric Marsh, M.D., Ph.D. (Con)

4:55 p.m. **Conclusions**
Eric Kossoff, M.D.

CREDIT DESIGNATION

The American Epilepsy Society designates this live activity for a maximum of 6.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses may claim up to 6.0 contact hours for this session.

PHARMACY CREDIT

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 6.0 contact hours (0.60 CEUs). UAN 0077-9999-15-028-L01-P. Initial Release Date: 12/6/2015.

10:00 a.m. – 4:00 p.m.
Exhibit Hall

6:00 p.m. – 7:30 p.m.
Special Interest Group Meetings

Dietary Therapies for Epilepsy: Dietary Therapies for Status Epilepticus

Coordinators: Christina Bergqvist M.D. and Tim Simeone Ph.D.

Speakers: TBA

This session will cover our current knowledge of using dietary therapies during status epilepticus. It will include a "how to" section and discussions of the central nervous system

changes that occur during status and possible mechanisms by which the dietary therapies may work to stop this process. A “breaking news” section will end the session. This will consist of six brief presentations by authors of dietary therapy-related studies. Prior to the meeting we will request abstract submissions for the “breaking news” section and select the top three clinical and basic science abstracts for presentation. This “breaking news” section will be followed by a short Q & A session. Also prior to the meeting we will request from our email list dietary therapy recipes that will be compiled and shared with attendees. At the end, we will present a small prize to the winner of the “breaking news” section and the best recipe.

Global Pregnancy Registry Outcomes

Coordinators: Esther Bui, M.D. F.R.C.P. and Elizabeth Gerard, M.D.

Speakers: Australian Pregnancy Register – Terrence O’Brien, M.D.; EURAP – Torbjörn Tomson, M.D., Ph.D; NEAD/ MONEAD – Kimford Meador, M.D. and Page Pennell, M.D.; North American AED Pregnancy Registry – Lewis Holmes, M.D.; UK and Ireland Pregnancy Register – John Craig, M.D.

The management of epilepsy during pregnancy is one of the most rapidly evolving fields within neurology and one that generates a great deal of anxiety among providers. The international pregnancy registries have been essential to pushing forward our understanding of how to treat and counsel this extremely vulnerable group of patients (and their children). The pregnancies registry SIG provides the opportunity for AES attendees to review the constantly evolving data being generated by these powerful registries at one time. Attendees receive critical emerging data that may dramatically influence their care of all women of childbearing age with epilepsy.

The 2015 SIG will involve a case-based discussion/debate format. Speakers will debate controversial points in management with evidence from registry data. We will also invite audience participation.

Neuroimaging: Advanced Network Analysis Methods: Are They Clinically Useful?

Coordinator: Neda Bernasconi, M.D., Ph.D.

Speakers: Boris Bernhardt, J.I. Tracy, Ph.D., A.B.P.P.(CN) and Hal Blumenfeld, M.D., Ph.D.

Speakers will discuss the clinical utility of novel MRI-based network analysis methods in relation to lesion detection, cognitive outcome and seizure outcome after surgery.

Psychogenic Nonepileptic Seizures (PNES): Presenting the Diagnosis of PNES – Do’s and Don’ts

Coordinator: Sigita Plioplys, M.D.

Speakers: Barbara Dworetzky, M.D., Gaston Baslet, M.D., Marcus Rueber, M.D., Ph.D., F.R.C.P., Selim Benbadis, M.D., Susan Koh, M.D., Julia Doss, Psy.D., Rochelle Caplan, M.D. and Christopher Patrick Brown, M.D.

Speakers will represent multidisciplinary teams of adult and pediatric expert clinicians typically involved in the diagnostic process of patients with PNES. They will discuss how to effectively and sensitively present the PNES diagnosis to the patients and their families using hands-on practical materials such as video recordings of actual clinical cases, dialogs, and team discussions.

NEW – Hot Topic

Coordinators: Raman Sankar, M.D., Ph.D. and Tobias Loddenkemper, M.D.

Speakers: TBA

Description: TBA

8:00 p.m. – 10:00 p.m.

Social Networking Groups

Registration is not required.

Informal gathering and networking for SIG participants. Space is limited so participants are welcome on a first-come, first-served basis. Roundtable topics to be covered this year will be announced soon.

7:00 a.m. – 8:30 a.m.

Special Interest Group Meetings

Critical Care Epilepsy: Hot Topics in Critical Care Epilepsy

Coordinator: Howard Goodkin, M.D., Ph.D. and Cecil Hahn, M.D.

Speakers: TBA

We will invite four – six authors of high-impact research in the field of critical care epilepsy to present their work.

Global Health: How You Can Get Involved

Coordinators: Sheryl Haut, M.D.

Speakers: David Labiner, M.D. and Lionel Carmant, M.D.

Participation in epilepsy-related global health projects is exciting, productive and important! Many people are still unaware of the possible avenues to pursue global health. This SIG will focus on opportunities for international collaborations, professorships and partnerships around the world, both in person and via telemedicine.

Junior Investigator Workshop: The Academic Juggling Act: Balancing Research Effort and Everything Else

Coordinator: Mackenzie Cervenka, M.D.

Speakers: Thomas Bleck, M.D., Jackie French, M.D., Dan Lowenstein, M.D. and William Theodore, M.D.

Establishing a successful research career requires protected time. Whether you are a clinician scientist or a basic scientist focused on epilepsy research, demands on your time often include educational, administrative, and/or clinical activities that must be balanced with your research effort. Our interactive panel will discuss successful strategies for juggling academic and clinical activities with the demands of being a productive researcher.

Panelists will be asked to describe their distribution of effort and how it has changed over time during their careers, strategies for negotiating to redistribute effort (how and how often to do so) and how these decisions can affect promotion and research productivity.

Pediatric Epilepsy Case Discussions

Coordinator: Elaine Wyllie, M.D.

Speakers: Raman Sankar, M.D., Ismail Mohamed, M.D., Ajay Gupta, M.D. and Elaine Wyllie, M.D.

The illustrious faculty members will each present an eye-opening pediatric epilepsy case from his or her personal experience and then lead a spirited discussion with the esteemed audience. Please join us for another round of terrific pediatric epilepsy case discussions with peers and colleagues.

Psychosocial Comorbidities: Screening for Psychosocial Comorbidities in Adults and Children with Epilepsy — Why and How to Screen

Coordinators: Jana Jones, Ph.D. and Gaston Baslet, M.D.

Speakers: Miya Asato, M.D., Lorie Hamiwka, M.D., Nathalie Jette, M.D., M.Sc., F.R.C.P.C. and David Loring, Ph.D.

Psychosocial comorbidities in epilepsy are well established and have a significant impact on quality of life and long-term prognosis. Prompt recognition of these comorbidities is necessary to provide comprehensive care and improve life outcomes. In this SIG we will discuss practical measures that clinicians in epilepsy care can utilize to identify specific psychiatric and cognitive disorders. Examples of validated self-report screening tools for depression in adults with epilepsy include the NDDI-E, PHQ-9 and PHQ-2, all of which are easy to administer in a clinical setting and will alert the clinician to symptoms of depression. Given the high rates of mood disorders in children with epilepsy, the feasibility, necessity and benefits of routine screening in the clinic using tools such as the SDQ will be reviewed. To characterize cognition, clinicians can use screening questionnaires, rating scales, as well as brief screening measures and computerized measures. In children, given concerns about the developmental impact of seizures and long-term effects on scholastic achievement, cognitive screening can also include brief parental surveys to supplement neuropsychological assessment.

Surgery: Battle Royale: Stereo EEG vs. Subdural Electrodes

Coordinators: Saadi Ghatan, M.D. and Gerald Grant, M.D.

Speakers: TBA

Presenters will be divided between specialists who recommend Stereo EEG over grid and strip electrodes and vice versa for their most difficult intracranial monitoring cases.

8:00 a.m. – 2:00 p.m.

Poster Session Three

8:00 a.m. – 5:00 p.m.

Scientific Exhibits

8:45 a.m. – Noon

Merritt-Putnam Symposium: Networks in Epilepsy

OVERVIEW

Network science is a multidisciplinary field based on fundamental discoveries in mathematics and physics that has had significant impact on a wide range of disciplines spanning engineering, medicine, biology, social and information technology. Advances in the science of networks have led to a deeper understanding of the role of the cellular constituents, assemblies and large-scale brain networks underlying normal and pathological brain activity, and has important implications for epileptogenesis, seizures and epilepsy. In this Merritt-Putnam symposium we review the science and technology driving the rapidly evolving, interdisciplinary field of networks, and address some of the key opportunities and challenges. This will include discussion of the role of networks in clinical epilepsy, including evaluation of cognition and planning epilepsy surgery.

LEARNING OBJECTIVES

- Recognize the role of epileptic networks and the emerging evidence for its role in focal epilepsy using EEG or fMRI
- Counsel families regarding prognosis of epilepsy surgery based on understanding of the role of networks
- Participate in counseling families regarding role of networks on memory circuits and association with network phenomena and prognosis

TARGET AUDIENCE

Intermediate and Advanced (see page 4 for details)

PROGRAM

Chair: Gregory Worrell, M.D., Ph.D.

Introduction

Gregory Worrell, M.D., Ph.D.

The Concepts of Networks

Olaf Sporns, Ph.D.

Functional Imaging, Networks and Epilepsy

Danielle Bassett, Ph.D.

Electrophysiology: Spanning Units, Local Field Potentials, Large-Scale Networks in Epilepsy

Catherine Schevon, M.D., Ph.D.

Cells/Assemblies/Networks of Physiological Activity and Seizures

Sydney S. Cash, M.D., Ph.D.

Networks in Cognition and Epilepsy Surgery

Hal Blumenfeld, M.D., Ph.D.

Conclusions

Gregory Worrell, M.D., Ph.D.

CREDIT DESIGNATION

The American Epilepsy Society designates this live activity for a maximum of 3.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses may claim up to 3.0 contact hours for this session.

PHARMACY CREDIT

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 3.0 contact hours (0.30 CEUs). UAN 0077-9999-15-032-L01-P. Initial Release Date: 12/7/2015.

9:00 a.m. – 10:30 a.m.

Special Interest Group Meetings

Epidemiology: Patient Reported Outcomes in Epilepsy

Coordinators: Nathalie Jette, M.D., F.R.C.P.C. and Christine Bower Baca, M.D.

Speakers: Nathalie Jette, M.D., F.R.C.P.C., Rosemary Kobau, M.P.H., M.A.P.P., Gabrielle Ronen, M.D., Frank Gilliam, M.D., M.P.H., Joyce Cramer and Christine Bower Baca, M.D.

Patient reported outcomes (PRO) are becoming increasingly important in health services clinical research including randomized controlled trials. This special interest group will address important PRO initiatives and data sources, examples of epilepsy specific PROs, the application of PROs in population based research and in critical care and suggested approaches to reporting and analyzing PROs.

Epilepsy and Aging: Clinical, Cognitive and Basic Science Aspects of Aging and Epilepsy

Coordinators: Bruce Hermann, Ph.D.; Kimford Meador, M.D. and Helen Scharfman, Ph.D.

Speakers: TBA

The Epilepsy and Aging SIG will again develop a thematic approach to a topic of interest to neuropsychology, clinical neurology and basic science. The target topic for this year's SIG is "Amyloid and Epilepsy".

Genetics: Is Your Variant Pathogenic?

Coordinators: Tara Klassen, Ph.D. and Eric Marsh, M.D., Ph.D.

Speakers: Sameer Zuberi, M.D., Andreas Brunklaus, M.D. and Ingo Helbig, M.D., Ph.D.

This SIG will be a combination of presentations describing variant pathogenicity algorithms employed in bioinformatic analysis. The differences in variant calling for research and gene testing for single genes, gene panels and NGS approaches will be discussed; followed by an open forum dialogue about the deleteriousness of individual genetic

variants. The conversation will include discussion of what different people mean when they use the term mutation vs. variant vs. polymorphism and what is meant when a variant is said to be pathogenic, causative or of unknown significance.

The initial speakers will discuss the process of calling variants, discussing methods used for assessing the potential pathogenicity of variants, including information on the available algorithms, databases and filtering strategies currently in use. This will be followed by a speaker who will provide some specific examples of gene variants in both known and novel genes. This speaker will also talk about the challenges associated with assigning pathogenicity and causation, and how this differs in clinical vs research context. Following the presentations, the SIG Chairs will lead an open discussion with audience and panel members. The audience will be encouraged to share variants with the group to answer the question "is your variant pathogenic? If needed, Drs. Klassen and Marsh will have a number of pre-submitted variants, including benign, pathogenic and VUS variants for further discussion, should time and interest permit.

NINDS/Non-Profit Research Resources: Partnerships and Funding Opportunities for Translational Research

Coordinators: Randall Stewart, Ph.D., Brandy Fureman, Ph.D., William Benzing, Ph.D., Steve Roberds, Ph.D., Ilene Miller, B.S., J.D., L.L.M. and Seth Wohlberg, M.B.A.

Speakers: NINDS and Non-profit Funding Organizations

Each group will present on specific programs they offer (like the ASP and the new NINDS translational funding, other programs from non-profit groups) also partnering opportunities of interest to investigators.

10:00 a.m. – 2:00 p.m.

Exhibit Hall

2:15 p.m. – 3:00 p.m.

Lennox and Lombroso Lecture: Epilepsy and Autism — Bad Luck or Bad Connectivity?

Lecturer: Gregory L. Holmes, M.D.

There are multiple genetic and environmental causes for both autistic spectrum disorder and epilepsy and both can be conceptualized as disorders of aberrant connectivity. Evidence is accumulating that the co-occurrence may be explained by the same nascent insult. For example, early life seizures may result in the altered function of neurotransmitter systems and intrinsic neuronal properties during neurodevelopment leading directly to disrupted cortical connectivity. The clinical expression of this derailment can result in seizures or devastating impairments in social communication and behavior, or both. Investigations in animal models with both epilepsy and autistic-

like behavior are shedding light into many unanswered questions regarding this important co-occurrence.

3:00 p.m. – 4:30 p.m.

Investigators' Workshop

This workshop is an AES Research Grant funded study

Immune and Non-cannonical Effects of Inflammation in Seizure Disorders

Moderators: Viji Santhakumar, Ph.D. and Anne Anderson, M.D.

Speakers: Lisa Boulanger, Ph.D. and Amy Brewster, Ph.D.

3:00 p.m. – 5:00 p.m.

FDA Town Hall Update: Generic Antiepileptic Drug Bioequivalence in Epilepsy Patients: from Anecdotes to Evidence

OVERVIEW

Uncontrolled studies suggested lack of efficacy or increased adverse events when people with epilepsy switched from brand to generic AEDs. Some neurologists, patients and patient advocacy groups questioned the FDA whether product bioequivalence established in healthy volunteers can ensure AED bioequivalence in people with epilepsy receiving concomitant medications. To address the epilepsy community's concern, the FDA Office of Generic Drugs (OGD) has funded a series of prospective brand-to-generic AED switching studies in epilepsy patients starting in 2010, including the Bioequivalence in Epilepsy Patients (BEEP) study and Equivalence in Generic Drugs (EQUIGEN) study. The research findings from BEEP and EQUIGEN studies will be presented. Some other factors which may affect AED clinical outcomes, including pill appearance, patient adherence and patient/physician perception about generic drugs, will be discussed. FDA OGD's continued efforts on generic AEDs including narrow therapeutic index (NTI) drug classification and modified release products will be updated.

LEARNING OBJECTIVES

At the completion of this activity, the participant will be able to:

- Describe results and conclusions from current single- and multiple-dose AED bioequivalence trials in epilepsy patients
- List factors which may impact AED clinical outcomes
- Understand NTI drug classification process

PROGRAM

Chair: Michael Privitera, M.D.

Introduction

Michael Privitera, M.D.

BEEP Study Findings

Tricia Ting, M.D.

EQUIGEN Single Dose Study Update

Michael Privitera, M.D.

Authorized Generics, Pill Appearance and Patient Adherence

Joshua Gagne, Pharm.D., Sc.D.

FDA OGD Updates on Generic AEDs and NTI Designation

Wenlei Jiang, Ph.D.

Panel Discussion

Moderators: Michel Berg, M.D. and Xiaohui Jiang, Ph.D.

Panel members: Tricia Ting, M.D., James Polli, Ph.D., Michael Privitera, M.D., Michel Berg, M.D., Joshua Gagne, Pharm.D., Sc.D., Xiaohui Jiang, Ph.D. and Wenlei Jiang, Ph.D.

CREDIT DESIGNATION

The American Epilepsy Society designates this live activity for a maximum of 2.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses may claim up to 2.0 contact hours for this session.

Nurse Practitioners may claim 2.0 hours of pharmacology for this session.

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 2.0 contact hours (0.2 CEUs). UAN 0077-9999-15-039-L01-P. Initial Release Date: 12/7/2015.

3:00 p.m. – 5:15 p.m.

Pediatric Epilepsy Highlights Session

This session will showcase selected scientific abstracts focused on topics in clinical care and research in pediatric epilepsy. Authors will present a six-minute overview of their work. Presentations are chosen from all submitted abstracts. Participants will be able to view posters and meet the authors at the end of the program.

3:00 p.m. – 5:15 p.m.

Platform Sessions: Three Concurrent Sessions

There will be three concurrent sessions consisting of selected key scientific abstracts. Authors will present a 10-minute overview of their work followed by a five-minute Q & A.

5:30 p.m. – 8:00 p.m.

Pediatric State of the Art Symposium: Death in Children with Epilepsy — A Different Tragedy Than in Adults

OVERVIEW

This symposium will present a detailed review of mortality in children with epilepsy with emphasis on what is currently fact. A discussion of SUDEP will outline why this catastrophe is different in children than adults and the quality of evidence

for prevention. There will be a careful discussion of what to tell patients and families about the risk of death and how to assist families should their child die.

LEARNING OBJECTIVES

- Discuss the risk of death with families and children with epilepsy
- Provide critical guidance about appropriate evidence-based preventative strategies
- Physicians will counsel families effectively in the event of a death
- Counsel families about the low risk of death and guide appropriate evidence-based preventative strategies
- Encourage patients to be very compliant with medication, a key way to prevent seizures and a key to preventing sudden unexplained death in children with epilepsy

TARGET AUDIENCE

Basic and Intermediate (see page 4 for details)

PROGRAM

Co-Chairs: Carol Camfield, M.D. and Elizabeth Donner, M.D.

Introduction and Case Presentations

Elizabeth Donner, M.D. and Carol Camfield, M.D.

What Are the Epidemiological Facts?

Elaine Wirrell, M.D.

Leading Theories about the Cause of SUDEP in Children and Prevention

Tobias Loddenkemper, M.D.

Why Is the Data So Different for Children Than Adults?

Peter Camfield, M.D.

What Should We Say to Parents about Death Related to Epilepsy and When?

Jeffrey Buchhalter, M.D., Ph.D.

Dealing with Grief after Expected and Unexpected Death in Children

Linda Coughlin-Brooks, R.N., B.S.N., C.T.

Conclusions

Carol Camfield, M.D.

CREDIT DESIGNATION

The American Epilepsy Society designates this live activity for a maximum of 2.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses may claim up to 2.5 contact hours for this session.

PHARMACY CREDIT

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 2.5 contact hours (0.25 CEUs). UAN 0077-9999-15-034-L01-P. Initial Release Date: 12/7/2015.

7:00 a.m. – 8:30 a.m.

Special Interest Group Meetings

Ictal Semiology: Looking Carefully at Seizure Semiology to Deduce Onset and Spread of Ictal Discharges

Coordinators: Philippe Kahane, M.D, Ph.D. and Andrew Bleasel, M.B.B.S., Ph.D., F.R.A.C.P.

Speakers: Andrew Bleasel, M.B.B.S., Ph.D., F.R.A.C.P., Philippe Kahane, M.D., Ph.D., Hans. O. Lüders, M.D., Ph.D. and Felix Rosenow, M.D.

The main idea of this session — as in previous years — is to figure out ictal semiology based on patient's history and video documentation of four to six typical or unusual seizures. The coordinators and speakers will show videos of typical or unusual seizures. After showing each video, members of the audience will be invited to describe and analyze seizure semiology, and to make hypotheses on the seizure onset and spread. The faculty members will then give their opinion, and the final explanation will be given by the presenter at the end of each case presentation, based on intracranial EEG and/or surgical result. The format of the session is interactive, with the main aim to show the audience how to use subjective and observable clinical elements to localize the seizure onset and to reconstruct the propagation pattern of the ictal discharge.

Neonatal Seizures: A Menagerie of Models — A Tour of Animal Models of Neonatal Seizures

Coordinators: Courtney Wusthoff, M.D. and Tim Benke, M.D., Ph.D.

Speakers: TBA

We will divide the session into two sections:

1. **Data Blast** — The organizers will screen accepted abstracts and invite the authors of 3 of the most relevant papers to present their work and accept questions and comments from the audience.
2. **Tour of Animal Models** — A panel of respected basic science researchers will present their unique animal models for neonatal seizures. Concepts will be reviewed at a level appropriate for the clinician seeking to enhance their understanding of the literature in this area. EEG examples from specific models will then be used to illustrate individual strengths and limitations, culminating in a dialogue amongst the panel and with the audience.

Neurostimulation/Epilepsy and Engineering: Neurostimulation Mechanisms

Coordinators: Christopher DeGiorgio, M.D., Catherine Schevon, M.D., Ph.D. and Steven J. Schiff, M.D., Ph.D.

Speakers: Kristl Vonck, M.D., Ph.D., Paul Boon, M.D., Ph.D. and Theoden Netoff, M.D.

Basic mechanisms of vagal nerve and deep brain stimulation; new paradigms for stimulation to control seizures.

Post-Traumatic Epilepsy: Biomarkers of Post-traumatic Epilepsy; Prevention of Post-traumatic Epilepsy; and Novel Surgical Approach to the Treatment of Post-traumatic Epilepsy

Coordinators: Joe Drazkowski, M.D. and Enrique A. Feoli, M.D.

Speakers: Robert Goodman M.D. and TBA

Traumatic brain injury (TBI) is a major cause of acquired epilepsy accounting for 20% of symptomatic epilepsies in the general population. The mechanisms that underlie post-traumatic epilepsy (PTE) are sundry and complicated and consensus is lacking both in terms of cause and therapeutic approach, this year will discuss potential biomarker of PTE, like EEG, Brain MRI, Head CT or other modalities that might help us predict who will develop epilepsy. We will also discuss whether or not epilepsy could be prevented, we will go over the animal models, looking for prevention strategies. Lastly we will talk/discuss surgical approaches, and how to approach this cases with usually challenging refractory epilepsy, large, complex areas of encephalomalacia, where would the implants go?, can that be narrowed down by current technology, like MEG among others and are there other surgical options besides resection?

Quality, Value and Safety in Epilepsy: Improving EEG Quality and Access to EEG Services

Coordinator: Katherine Noe, M.D., Ph.D.

Proposed Speakers: TBA

Plan to discuss emerging technologies that may allow improved access to EEG (e.g automated devices that might be used without a trained EEG tech, wireless devices that could be used for long-term recording in place of standard ambulatory units); role of EEG technologist training and certification.

Practice Management Course

Coordinator: Gregory Barkley, M.D.

Annual update on ICD and CPT codes plus an open forum to discuss Electronic Health Record (EHR) issues, tips and tricks. Participants are encouraged to submit suggestions of problems and tips from their own practices ahead of time.

8:45 a.m. – 10:45 a.m.

Scientific Symposium: Personalized Medicine in Epilepsy — A Brave New World

OVERVIEW

Tremendous advances in our understanding of the genetic mutations that underlie different types of epilepsy have left the epilepsy research and clinical world reeling. How to take this knowledge to the next level so that treatments can be identified for these patients in, some of whom exist in only small numbers, is being wrestled with at many levels. At the same time President Obama's recent Precision Medicine Initiative represents a bold new research effort to revolutionize how we improve health and treat disease. This symposium will address these issues, from mutation to bedside in a precision medicine fashion.

LEARNING OBJECTIVES

- Recognize identified genetic causes of epilepsy and is familiar with the literature on emerging genetic causes of epilepsy
- Counsel families regarding prognosis and treatment using a personalized medicine approach
- Participate in counseling families regarding genetic epilepsies
- Assist in treating genetic epilepsies through a better understanding of emerging personalized medicine findings
- Recognize the neuropsychological and developmental impact of genetic epilepsies

TARGET AUDIENCE

Basic, Intermediate and Advanced (see page 4 for details)

PROGRAM

Chair: Scott Baraban, Ph.D.

Introduction

Daniel Lowenstein, M.D.

Defining the Target: Mutation Discovery in Human Epilepsy

Heather Mefford, M.D., Ph.D.

Precision Medicine in Zebrafish: A Primer Using SCN1 Mutants

Scott C. Baraban, Ph.D.

Patient-derived IPS Cells to Understand Epileptic Encephalopathy and SUDEP

Lori Isom, Ph.D.

Application of Precision Medicine in Patients with a KCNT1 Mutation

Ethan Goldberg, M.D., Ph.D.

Conclusions

Scott C. Baraban, Ph.D.

CREDIT DESIGNATION

The American Epilepsy Society designates this live activity for a maximum of 2.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses may claim up to 2.0 contact hours for this session.

Nurse Practitioners may claim 2.0 hours of pharmacology for this session.

PHARMACY CREDIT

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 2.0 contact hours (0.20 CEUs). UAN 0077-9999-15-036-L01-P. Initial Release Date: 12/8/2015.

8:45 a.m. – 10:45 a.m.

Hot Topics Symposium: Epilepsy Updates

OVERVIEW

The Hot Topic Symposium offers the latest in epilepsy research, diagnosis and treatment. Review of the most relevant topics is underway and the session descriptions will be updated as finalized.

LEARNING OBJECTIVES

- Utilize diagnostic testing for genetic and autoimmune disorders more effectively, to better diagnose and treat these conditions
- Prescribe valproate more effectively to improve medical management of women with epilepsy
- Discuss the latest information regarding cannabis and epilepsy to provide better advice for patients

TARGET AUDIENCE

Intermediate and Advanced (See page 4 for details)

PROGRAM

Chair: Michael Sperling, M.D.

When Should Genetic Testing Be Performed?

Annapurna Poduri, M.D.

When Should Autoantibody Testing Be Performed?

Christian Bien, M.D.

Update on Valproate Prescription for Women

Torbjörn Tomson, M.D., Ph.D.

Cannabis Update

Kelly Knupp, M.D.

CREDIT DESIGNATION

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Nurses may claim up to 2.0 contact hours for this session.

PHARMACY CREDIT

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 2.0 contact hours (0.20 EUs). UAN 0077-9999-15-040-L01-P. Initial Release Date: 12/8/2015.

11:00 a.m. – 12:30 p.m. Session One
12:45 p.m. – 2:15 p.m. Session Two
Skills Workshop
Pre-registration and tickets are required for these sessions. An additional \$50 registration fee applies for each workshop; maximum of 30 people per session.

Basic EEG in Epilepsy: Fundamentals and Interpretation

Moderator: Gregory D. Cascino, M.D.

The routine EEG recording remains essential in the care and management of individuals with seizures and suspected epilepsy. The EEG is used for diagnosis, classification of seizure type and identification of a specific epileptic syndrome. EEG findings may be of prognostic importance and be used to assess the efficacy of treatment. Use of appropriate EEG methodology and recognition of artifact and benign variant patterns are essential for satisfactory clinical studies. This workshop will review basic methodologies of EEG for the evaluation and treatment of pediatric and adult patients with seizure disorders. This will include use of appropriate EEG techniques and fundamentals of EEG recordings. Recognition of benign variant alterations and ictal-interictal epileptogenic discharges will be addressed. The presentations will also discuss the importance of EEG to identify characteristics of specific epilepsies and epileptic syndromes.

Basics of Neuroimaging Acquisition and Processing: What the Clinician Needs to Know

Moderator: R. Edward Hogan, M.D.

Basic principles of image acquisition and post-image-acquisition processing have important implications for correlation with clinical history and EEG findings in the diagnosis and treatment of epilepsy. The workshop will focus on pertinent basic principles of acquisition and processing of MRI, PET and SPECT, focusing on important factors in clinical correlations and interpretation of test results.

Genetics Testing in Epilepsy Patients

Moderators: Alica M. Goldman, M.D., Ph.D. and Annapurna Poduri, M.D.

Description: Novel detection platforms have accelerated scientific discoveries of genes relevant to patient with epilepsy of all ages. These research findings are being adapted by clinical diagnostic laboratories in academic institutions and commercial laboratories. Selection of patients that would most benefit from the genetic investigations, identification of the appropriate tests, and reporting of results are increasingly complex. This skill workshop will review available testing platforms and outline case scenarios driven testing algorithms. The aim is to provide practical clinical guide in selecting patients, testing methods, and the workflow involved in ordering, submitting, and reporting genetic tests.

The workshop is designed to be an interactive, case driven discussion and a practical guide for clinical care. Participants are encouraged to submit questions and cases to Drs. Goldman and Poduri. The goal is to address pressing questions and discuss real life cases within the context of genetic testing driven diagnostics and care.

Intracranial Electrode Studies: How Do You Choose a Technique for Optimum Localization

Moderator: Dennis Spencer, M.D.

Over the past thirty years, resection for medically intractable epilepsy has become a standard treatment option. However, in many instances successful surgery is not possible without defining the potential respective volume by intracranial electrophysiology. Imaging and stereotactic navigation have made great strides since the 1990s and epilepsy centers have many choices regarding types of electrodes, number of contacts needed and how they are delivered. This workshop will look at three centers with different solutions to intracranial studies. Common problematic cases will be presented and each of the three surgeons will provide a rationale for their solution to a standard study.

Neurostimulation/VNS

Moderator: Mohamad Koubeissi, M.D.

Neurostimulation is now an accepted treatment option for patients with refractory epilepsy. At this point only vagus nerve stimulation (VNS) is approved by the FDA for patients with epilepsy. This workshop will discuss and instruct on how to use VNS effectively. After the workshop participants should be able to identify appropriate patients, understand how implantation is carried out and how to program the device. Side effects and how to practically manage them will be discussed as well. If other neurostimulating devices will be approved by the FDA during the months before the Annual Meeting, then information on how to proceed with those devices will also be addressed.

Optimal Use of Neuroimaging in Diagnosing and Treating Epilepsy

Moderators: John Stern, M.D. and David Millett, M.D., Ph.D.

Neuroimaging is an essential tool in the diagnosis and treatment of epilepsy. It has opened a window on the pathological substrate underlying epilepsy, ranging from subtle gliotic lesions and cortical malformations to larger, more extensive structural disturbances. This workshop will review the techniques used to diagnose epilepsy, emphasizing both basic MRI customized for epilepsy and advanced neuroimaging techniques. We will review a rational approach to the use of neuroimaging, highlight specific techniques that enhance diagnostic ability, along with newer fMRI and other functional imaging methods. Interpretation of scans and various findings will be reviewed in this practical session.



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EPILEPSY
SOCIETY

American Epilepsy Society
135 S. LaSalle St., Suite 2850
Chicago, IL 60603

Phone: 312-883-3800

Email: info@aesnet.org

Website: www.AESnet.org