

AMERICAN EPILEPSY SOCIETY

2007 ANNUAL
MEETING

PHILADELPHIA, PA

November 30 - December 4, 2007

2007 Annual Meeting

AES 2007

NOVEMBER 30-DECEMBER 4, 2007 ■ PHILADELPHIA, PA

SCHEDULE-AT-A-GLANCE

Preliminary Schedule as of May 1, 2007

FRIDAY November 30

- 7:00 a.m. - 6:00 p.m. Registration
- 8:00 a.m. - 3:00 p.m. Advances in the Management of Epilepsy and the Epilepsy Clinic
- 8:00 a.m. - 4:00 p.m. Neurobehavioral Fellows Program
- 9:00 a.m. - 4:00 p.m. National Epifellows Foundation
15th Annual Scientific Forum
- 11:30 a.m. - 6:00 p.m. Comprehensive Review of Epilepsy Management: A Case-Based CME Symposium
- 1:00 p.m. - 2:30 p.m. Special Interest Group Meetings
- 2:30 p.m. - 3:30 p.m. Hoyer Reception
- 3:30 p.m. - 5:00 p.m. Hoyer Lecture
- 5:00 p.m. - 6:00 p.m. Educational Symposia Reception
- Practice Resources for Professionals in Epilepsy Care
- 6:00 p.m. - 8:30 p.m. AET Symposium: *Generic Antiepileptic Drug Substitution*
- Hot Topics Symposium: *Epilepsy and the Immune System*

SATURDAY December 1

- 7:00 a.m. - 6:00 p.m. Registration
- 9:00 a.m. - 12:15 p.m. Merritt-Putnam Symposium: *Post-Traumatic Epilepsy — Treatable Epileptogenesis?*
- Noon - 6:00 p.m. Exhibit Hall
- 1:00 p.m. - 6:00 p.m. Poster Session 1
Authors Present A: 1:30 p.m. - 2:30 p.m.
Authors Present B: 4:30 p.m. - 5:30 p.m.
- 2:30 p.m. - 4:00 p.m. Special Interest Group Meetings
- 4:30 p.m. - 5:00 p.m. Educational Symposia Break
- 4:30 p.m. - 6:00 p.m. Investigators' Workshop Poster Session
- 5:00 p.m. - 7:30 p.m. Annual Fundamentals of Epilepsy: *Pharmacology 101*
- Spanish Symposium: *Surgical Evaluation*
- 5:00 p.m. - 8:00 p.m. Professionals in Epilepsy Care #1: *Basic Principles of the Treatment of Frequent Psychiatric Comorbidities in Epilepsy*
- 6:00 p.m. - 7:30 p.m. Investigators' Workshop

SUNDAY December 2

- 7:00 a.m. - 6:00 p.m. Registration
- 8:00 a.m. - 11:00 a.m. Scientific Exhibits
- 8:00 a.m. - 4:00 p.m. Annual Course: *Decision Points in Epilepsy — Bedside to Bench*
- 8:00 a.m. - 5:00 p.m. Investigators' Workshop
IW Posters: 11:30 a.m. - 1:30 p.m.
- 8:00 a.m. - 6:00 p.m. Poster Session 2
Authors Present C: Noon - 1:00 p.m.
Authors Present D: 5:00 p.m. - 6:00 p.m.
- 9:00 a.m. - 4:00 p.m. Exhibit Hall
- 2:00 p.m. - 5:00 p.m. Scientific Exhibits
- 4:00 p.m. - 6:00 p.m. Professionals in Epilepsy Care #2: *Unique Perspectives of Adolescents*
- 6:00 p.m. - 7:30 p.m. William G. Lennox Trust Fund Reception

MONDAY December 3

- 7:00 a.m. - 6:00 p.m. Registration
- 8:00 a.m. - 11:00 a.m. Scientific Exhibits
- 8:00 a.m. - 2:00 p.m. Poster Session 3
Authors Present E: Noon - 1:00 p.m.
- 9:00 a.m. - 11:30 a.m. Presidential Symposium: *Found in Translation — New Targets for Therapies*
- 9:00 a.m. - 2:00 p.m. Exhibit Hall
- 2:00 p.m. - 5:00 p.m. Scientific Exhibits
- 2:15 p.m. - 3:00 p.m. Lennox Lecture
- 3:00 p.m. - 4:30 p.m. Investigators' Workshop
- 4:30 p.m. - 6:00 p.m. Investigators' Workshop
- Pediatric Epilepsy Highlights Session
- Platform Highlights: 2 Concurrent Sessions
- 6:00 p.m. - 7:00 p.m. Educational Symposia Reception
- 7:00 p.m. - 9:00 p.m. Pediatric State of the Art Symposium: *Strategic Approaches to Pediatric Epilepsy Surgery*
- 7:00 p.m. - 9:30 p.m. Symposium: *What Is a Seizure?*

TUESDAY December 4

- 7:00 a.m. - 4:00 p.m. Registration
- 9:00 a.m. - 10:30 a.m. Plenary II: *Temporal Lobe Epilepsy: Discrete Focus or Spectrum Disorder?*
- 11:00 a.m. - 12:30 p.m. Plenary III: *Subcortical Control of Cortical Excitability*
- 12:45 p.m. - 2:15 p.m. Practice Management Course: Update for 2008
- Special Interest Group Meetings
- 2:30 p.m. - 4:00 p.m. Special Interest Group Meetings

AES 61st Annual Meeting

The Annual Meeting of the American Epilepsy Society is the largest meeting and exhibition in the world of those who share the common scientific and clinical interests of epilepsy and clinical neurophysiology. Each year close to 4,000 attendees gather who are dedicated to improving the quality of life for those afflicted with epilepsy. This meeting will be the top forum to examine common concerns and give the opportunity to gain insight from leading authorities.

The Annual Meeting consists of lectures, courses, poster and platform presentations, evening symposia, and scientific exhibits. This meeting offers members and non-members a forum for communicating and disseminating current findings in the field of epilepsy, and is an excellent opportunity for networking and sharing of ideas.

Mission Statement

The American Epilepsy Society (AES) is one of 96 chapters of the International League Against Epilepsy (ILAE). The American Epilepsy Society promotes research and education for professionals dedicated to the prevention, treatment and cure of epilepsy.

Target Audience

The meeting is designed for academic and practicing neurologists, epileptologists, neurophysiologists, neuroscientists, neurosurgeons, internists, pediatricians, pharmacists, nurses, social workers, and other epilepsy care professionals.

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 the AES provide in-depth presentations that are fair balanced, independent and scientifically rigorous. All faculty are required to complete a "Conflict of Interest" form. This information will 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 denoted 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 other manufacturers of pharmaceuticals.

Proceedings

Proceedings of the 2007 Annual Meeting will be available on the Blackwell Synergy Web site, the AES Web site as well as on a CD-ROM. Abstracts will appear in the order they were presented.

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 educational activity for a maximum of 29.25 *AMA PRA Category 1 Credits™*. Physicians should only claim credits commensurate with the extent of their participation in the activity.

Nurses: Continuing education credit will be provided through physician CME credit. The majority of state nursing boards accept physician CMEs. For specific questions, contact your state board of nursing.

Pharmacists: Selected AES programs are approved for continuing education units (CEUs). Pharmacists will be required to complete evaluations for each program attended. Extension Services in Pharmacy, University of Wisconsin, is accredited by the Accreditation Council on Pharmacy Education (formerly the American Council on Pharmaceutical Education) as a provider of continuing pharmaceutical education.

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 Credit™*.

Medical Education Evaluator™ and Certificates

The Medical Education Evaluator allows any attendee to self manage the process of completing course pre/post tests, course evaluations, tracking credits and printing out the appropriate certificate for either *AMA PRA Category 1 Credits™*, CE or pharmacy credits.

Once you are on the Medical Education Evaluator, you will be asked to enter your badge # and password: aescme. ***The online Evaluator will be left open until January 31, 2008, so you must complete the evaluations and credit tracking by that date.*** The certificate(s) are saved to your personal account page and are cumulative. You may print the certificate(s) in PDF format at any time.

By completing this information online, attendees greatly assist the Council on Education and Annual Meeting Committee with important needs assessment data whereby the AES can further plan and tailor educational activities to meet the current and future needs of the Society.

A meeting attendance certificate will be available for foreign meeting attendees at the registration desk.

Syllabus

All registered meeting attendees will receive a CD-ROM in their meeting bag that contains the syllabi for educational symposia. Paper handouts will also be available for all meeting attendees in every session room.

Opening Lunch in Exhibit Hall

Plan to attend the opening lunch in this year's Exhibit Hall on Saturday, December 1 at Noon. Network with your colleagues and meet with representatives from the many exhibiting companies, publishers and organizations. The lunch is open to all full program registrants and to Saturday-only registrants.

Commercial Exhibits — Expanded Hours

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 Web site for an updated listing of exhibiting companies and organizations. To ensure safety and security, no children, strollers, carriages, wheeled luggage or wheeled briefcases will be allowed in the Exhibit Hall during exhibit hours.

Saturday, December 1

Noon - 6:00 p.m.

Sunday, December 2

9:00 a.m. - 4:00 p.m.

Monday, December 3

9:00 a.m. - 2:00 p.m.

Scientific Exhibits

The American Epilepsy Society has adopted and 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 will be displayed on two days, Sunday, December 2 and Monday, December 3.

William G. Lennox Trust Fund Reception

Share the dream to cure epilepsy! Come mingle with your colleagues and show your support at the annual reception on Sunday, December 2 from 6:00 p.m. - 7:30 p.m. A voluntary, tax deductible contribution of \$50, or whatever you can contribute, will benefit the Lennox Research Fund. To assist in planning, advanced registration is required. Make plans to have dinner with your colleagues after the event.

Cyber Café

As in the past, two cyber cafés will be set up during the meeting. One, in the registration area at the Convention Center will be open during registration hours from Friday through Tuesday. The other, located on the Exhibit Hall floor, will be open Saturday, Sunday and Monday during exhibit hours. Computers will be available with e-mail and World Wide Web access. To access your e-mail, you will need to enter your POP server address, user name and password. Check in with family members and colleagues, and conduct online research while attending the meeting. Wireless access will also be available in all public concourses of the Convention Center.

You will be able to complete the course evaluations and obtain your CME certificate online.

Child Care Information

Information on professional child care is available from the Concierge desk at each of the Annual Meeting hotels. If any children are accompanying their parents to the Annual Meeting, parents are requested to use discretion and be considerate of other meeting attendees. Parents are responsible for their children at all times. In order to maintain the educational environment, parents will be requested to remove their children if they are disrupting other meeting attendees. Due to safety considerations, children and strollers will not be permitted in the Exhibit Hall and Poster Sessions.

Cell Phones

The AES requests that attendees turn off cellular phones and pagers or set to vibrate mode upon entering all Annual Meeting programs.

Language

The official language of the Annual Meeting is English. No simultaneous translation is available.

Photography and Recording of Programs

The AES strictly prohibits all photography (flash, digital, or otherwise), audio and/or videotaping during the Annual Meeting. Equipment will be confiscated.

Press Room

The American Epilepsy Society Press Room offers resources including press releases, reports, fact sheets, biographies and more, to journalists seeking information on epilepsy-related studies, as well as presentations of interest to their audiences. The American Epilepsy Society staffs the Press Room at the meeting and works with journalists to develop stories, connect with presenters and research information. Sponsors and exhibitors are encouraged to submit press releases and media kits to the Press Room, although they must be approved by a designated AES staff member before they are placed in the room. For more information, please e-mail info@aesnet.org.

Advance Registration

Beginning in June 2007, you may register quickly and easily on the AES Web site. The deadline to receive a reduced registration rate is Friday, October 19, 2007. The advanced registration deadline is Thursday, November 1, 2007. You will be required to register on-site after this date.

On-site registration opens on Friday, November 30, 2007 at 7:00 a.m. in the Pennsylvania Convention Center. Complete registration information is included in this brochure.

Hotel Information

Beginning in June 2007, all reservations must be made through the official AES Housing Bureau, VIP Meetings and Conventions. You may do this by referring to the AES Web site. Or you may call 800.926.3976 or 310.459.0600. For your convenience, a hotel reservation form is included in this brochure. Please do not call the hotels directly.

AES encourages everyone to use the discount programs that have been arranged for you. In addition to supporting AES and receiving discounted rates, your participation assists the Society in obtaining better hotel rates for future meetings. A portion of the room rate at each hotel will be used to offset meeting expenses. The deadline for individual hotel

reservations is Thursday, November 1, 2007. The deadline for blocks of 10 or more rooms is Friday, October 5, 2007. You are encouraged to register and make your hotel reservations early, as rooms may sell out prior to this date.

Philadelphia Downtown Marriott (Headquarters Hotel)

1201 Market Street, Philadelphia, Pennsylvania 19107 USA

Telephone: 215.625.2900; Fax: 215.625.6000

Rates: \$190 Single

\$210 Double

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 Downtown Marriott 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 Downtown Marriott hotel is the perfect location.

Philadelphia Downtown Courtyard

21 Juniper Street, Philadelphia, Pennsylvania 19107 USA

Telephone: 215.496.3200; Fax: 215.496.3696

Rates: \$178 Single

\$198 Double

Check-in: 4:00 p.m. Check-out: Noon

The Philadelphia Downtown Courtyard hotel, listed in the "National Register of Historic Places," recaptures the grandeur of 1926 historic Philadelphia, Pennsylvania. After a \$75 million architectural restoration, this hotel incorporates state-of-the-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.

Hampton Inn Philadelphia Center City

1301 Race Street, Philadelphia, Pennsylvania 19107 USA

Telephone: 215.665.9100; Fax: 215.665.9200

Rates: \$129 Single/Double

Check-in: 4:00 p.m. Check-out: 11:00 a.m.

The Hampton Inn Philadelphia Center City-Convention Center is located off Interstate 676 East at the Broad Street exit and adjacent to the Pennsylvania Convention Center, in Center City. This value-priced hotel offers a coffee maker, iron and ironing board, and complimentary in-room movie channel in each guest room. Enjoy complimentary local calls and no surcharge for using a calling card. The following items are complimentary for each guest: hot breakfast or breakfast bag (Monday-Friday), high speed internet access in every room, wireless internet access in the lobby, coffee and tea in the lobby 24 hours a day, *USA Today*® copies Monday-Friday, a 24-hour front desk and message and fax service.

Meeting Location

Philadelphia Convention Center

1101 Arch Street, Philadelphia, Pennsylvania 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 Downtown Marriott. Directly below and accessible to the Center, the Market Street East rail station offers convention attendees a convenient, high-speed rail link to Amtrak's 30th Street Station and the Philadelphia International Airport.

GENERAL INFORMATION

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. Cultural, culinary, artistic and ethnic treasures abound in this city and its surrounding countryside. The fifth-largest city in the country, Philadelphia is a welcoming place, a city based on freedom of expression.

New and one-of-a-kind attractions, a wealth of art and culture, renowned performing arts companies, awe-inspiring architecture, a walkable downtown, seemingly endless shopping (with no tax on clothes) and a restaurant renaissance that has caught the world's attention all promise to create an unforgettable Philadelphia experience. And, 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.

For additional information, access the Philadelphia Convention Center and Tourism Corporation's Web site.

Weather

The average temperature in December is 35.8 degrees Fahrenheit.

Meeting Attire

AES promotes business casual attire for the duration of the Annual Meeting. Consider bringing a light jacket or sweater to Annual Meeting activities since meeting room temperatures and personal comfort levels vary.

Information for International Attendees

For information regarding travel to the United States, visas and entry information, you may refer to the following Web sites:

<http://travel.state.gov>

http://travel.state.gov/visa/visa_1750.html

Passport and Entry Visa: Participants are strongly advised to make sure they fulfill all legal requirements to enter the USA. Besides a valid passport, an entry visa may also be required. We recommend applying at least 4 months in advance. Official letters of invitation for entry visas will be supplied upon request. Please check the appropriate box on the registration form. You must allow sufficient time for this procedure. These letters do not commit AES to any kind of financial support, hosting arrangement, nor do they guarantee an entry visa will be issued.

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

For international dialing, the country code to the United States is +1. The local area code for Philadelphia, PA is 215.

Gratuities are not automatically added to the bill, except in some cases for large groups. Waiters and waitresses are usually given 15 to 20% of the bill. Taxi drivers usually receive 15% of the fare and doormen, skycaps and porters are normally tipped \$1 per bag.

The electricity used in Philadelphia, PA is standard 110 volt electricity. European appliances will require a voltage transformer.

Currency Exchange

American Express Travel Services Office, 16th St. and John F. Kennedy Blvd.
(Between 16th and 17th streets)

Thomas Cook Currency Services, 1800 John F. Kennedy Blvd.

First Union, 16th and Market Sts.

PNC Bank, Broad and Chestnut Sts.

For information regarding U.S. Embassies and Consulates, you may refer to the following Web site: www.usembassy.state.gov.

Getting to Philadelphia, Pennsylvania

Located eight miles from the meeting hotels, Philadelphia International Airport is served by 25 airlines, including all major domestic carriers, which provide non-stop service to more than 100 destinations in the United States, Canada, Mexico, Europe and the Caribbean. The SEPTA airport R-1 regional rail line connects the airport with Center City. One-way cab fare to and from Center City is \$20. For more information, contact the airport's 24-hour information line at 215.937.6937, or refer to the airport's Web site. For real-time flight departure and arrival information, call 800.745.4283.

Transportation from the Airport

Sedan and limousine services can be picked up at Zone 6 and shared-ride van services can be picked up at Zone 7 on the Commercial Transportation Roadway.

For information regarding transportation please go to the Ground Transportation Information desk located in each baggage claim area. The Ground Transportation Information representative can assist you with a list of transportation providers authorized to travel to your desired destination. Ground Transportation representatives cannot recommend specific services; however, they are there to inform you of transportation options. Representatives will give you instructions on how to contact the provider of your choice. They will also alert you once your provider arrives to pick you up.

You should have claimed your luggage prior to making your reservations. For additional information, refer to the AES Web site.

Taxicab Service

All taxi rates are based per trip not per person. Most taxis can accommodate up to 3 passengers. In some cases certain vehicle types can accommodate 4 passengers. There is a flat rate of approximately \$25 from the airport to the Center City Area.

Should you need to pay by credit card please advise the dispatcher upon your arrival to the taxi area, some companies do not accept credit cards or vouchers as a form of payment.

Rail Transportation

Amtrak provides extensive service to Philadelphia's 30th Street Station (30th and Market streets). For schedules and fares, contact Amtrak at 800.872.7245.

Security

The American Epilepsy Society is committed to providing a secure meeting environment. A formal security plan is being developed in consultation with the Security Department at the Convention Center. All meeting attendees will be required to produce a government-issued photo identification prior to receiving their badge and registration materials. Appropriate badges must be worn at all times while in attendance at the meeting and are required for admittance to all meeting activities. Special security procedures will also be in place for exhibition materials and all deliveries to the AES meeting. Additional security information will be provided at registration.

Contact Information

American Epilepsy Society
342 North Main Street
West Hartford, CT 06117-2507

Phone: 860.586.7505
Meeting Fax: 860.308.0029
E-mail: info@aesnet.org

8:00 a.m. – 3:00 p.m.

Advances in the Management of Epilepsy and the Epilepsy Clinic (Marriott – separate registration required; see below for instructions)

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.

To register, contact Patricia Ann Gibson, ACSW, Department of Neurology, Wake Forest Health Sciences Center, Winston-Salem, NC 27157-1078, or call 800.642.0500. Registration fee is \$75 and includes lunch.

8:00 a.m. – 4:00 p.m.

Neurobehavioral Fellows Program

The third annual Neurobehavioral Fellows Program is dedicated to developing awareness of and interest in the clinical and research opportunities pertaining to the neurobehavioral complications of the epilepsies and fostering treatments and cures. This program is targeted to residents, fellows and assistant professor level junior faculty in the fields of nursing, psychiatry and neuropsychology/clinical psychology. The program will consist of lectures, a research workshop, and presentations on funding opportunities for training and research.

You must apply for a seat in the program. Total number of seats available will depend on funding. Applications will be available on the AES Web site in July. For more information contact Cheryl-Ann Tubby at the AES at ctubby@aesnet.org.

9:00 a.m. – 4:00 p.m.

National Epifellows Foundation 15th Annual Scientific Forum

The National Epifellows Foundation (NEF) will hold its annual Forum on Friday, November 30. The forum is held each year in conjunction with the Annual Meeting of the American Epilepsy Society and consists of a general session followed by case study workshops, the cases for which are submitted by attendees and selected by the NEF Advisory Board.

Registration packages will be sent in June to directors of accredited epilepsy fellowship programs who nominate fellows from their institutions to attend. Registration is limited and nominees are selected on a first-come, first-served basis. The deadline for registration is September 28, 2007. For more information, please visit our Web site at www.epifellows.com or call 800.288.2074.

The NEF aims to foster the development of current trainees and recent graduates of epilepsy training programs. The forum is one of several ways in which the foundation achieves this goal. In addition, each year the NEF awards research grants of up to \$20,000 each to qualified applicants.

The NEF and its programs are supported by an educational grant from Pfizer Inc.

11:30 a.m. – 6:00 p.m.

A Comprehensive Review of Epilepsy Management: A Case-Based CME Symposium

Overview

This last symposium in a five-city series will feature an interdisciplinary panel, who will review the epidemiology, diagnosis and evaluation of epilepsy. Workshops geared specifically to the adult physician, the pediatric physician and professional in epilepsy will follow and will be geared toward guidelines and emerging trends in the treatment of epilepsy.

These workshops will provide a venue for participants to interact with experts in discussion of current issues and future directions in epilepsy management. The goal of the symposium is to enhance participants' knowledge base of epilepsy and its management, as well as optimize their skills in epilepsy care by demonstrating practical application of diagnostic tools and therapeutic options.

For program and registration information, visit the AES Web site.

Learning Objectives

- ▶ Learn about the appearance of each seizure type, the nature of the history associated with that problem, and how to select and evaluate the data obtained from various diagnostic tools
- ▶ Use patient history to classify the seizure correctly and determine the most effective method of treatment
- ▶ Apply guidelines, practice parameters, data and associated legal considerations to establish a well-rounded clinical practice to manage epilepsy
- ▶ Learn to educate patients on seizure control and develop monitoring plans in an effort to positively impact patient outcomes.

Target Audience

General neurologists, pediatricians, residents, nurses and pharmacists.

Program

Chair: L. James Willmore, M.D.

Diagnosis and Classification of Epilepsy

Diagnostic Tools

Treatment of Epilepsy

Practice Management: A Multidisciplinary Approach

Adult Physician Workshop

Pediatric Physician Workshop

Professional Epilepsy Care Workshop

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 5.75 *AMA PRA Category 1 Credits*SM. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Acknowledgement

This program is supported by an educational grant from Pfizer, Inc.

1:00 p.m. – 2:30 p.m.

Special Interest Group Meetings

Basic Mechanisms of Epilepsy – Animal Models to Study Antiepileptogenic Therapies

Coordinators: Raman Sankar, M.D., Ph.D., Andrey M. Mazarati, M.D., Ph.D.
 Speakers: Emilio Perucca, M.D., Ph.D., Asla Pitkänen, M.D., Ph.D., Andrey M. Mazarati, M.D., Ph.D., Viji Santhakumar, Ph.D.

This session will explore novel approaches to study antiepileptogenic therapy in animals of different developmental stages and with a reasonable throughput to be considered utilitarian. We anticipate each speaker to present with 6-8 (10 max.) slides to make their point in about 10 minutes, and encourage extensive audience participation. Discussions will include if models could be adopted to study the evolution of behavioral comorbidities and the ability of candidate drugs to protect against this phenomenon.

Clinical Roundtable – Continuous EEG Monitoring in the ICU Setting

Coordinators: Kevin E. Chapman, M.D., Jong M. Rho, M.D.
 Speakers: Marc S. Scher, M.D., James S. Riviello, M.D., Lawrence J. Hirsch, M.D.

Continuous EEG monitoring in the ICU setting has become more widely employed in tertiary centers to enhance patient care. This workshop will focus on the use of continuous EEG in the intensive care setting across different age groups. The benefits and challenges that each group poses will be explored to provide a practical overview for clinical neurophysiologists.

Epidemiology – Definitions of Epilepsy for Epidemiological Studies and Surveillance of Epilepsy

Coordinators: W. Allen Hauser, M.D., David Thurman, M.D., M.P.H.
 Speakers: TBD

This session will review work undertaken by a panel convened by the Centers for Disease Control and Prevention to develop epilepsy definitions for epidemiological studies and surveillance. The purpose of developing such standards is to consolidate methodological knowledge in order to promote consistent guidelines to enhance future epidemiologic studies of epilepsy, facilitate comparison between studies, and encourage collection of data useful for the purposes of public health.

Neuroimaging – Cellular Basis for Imaging of Epileptogenic Regions

Coordinator: Hoby P. Hetherington, Ph.D.
 Speakers: William H. Theodore, M.D., Jullie W. Pan, M.D., Ph.D., Chad Carlson, M.D.

During the past two decades, the emergence of a variety of neuroimaging modalities including MRI, PET, MRSI and EEG/MEG have dramatically improved our ability to lateralize and localize epileptogenic regions. This session will discuss the functional and cellular changes which underlie, are correlated with and contribute to the changes in imaging parameters measured by MRI, PET, MRSI, EEG/MEG.

Pregnancy Registry Outcomes – Update and Discussion of Data from Pregnancy Registries

Coordinators: Kimford J. Meador, M.D., Page Pennell, M.D.
 Speakers: Speakers from each of the major independent registries will be invited to provide updated information and participate in discussions of the clinical implications of present data and the knowledge gaps requiring additional research.

The Pregnancy Outcomes SIG is designed to be a resource for information regarding pregnancy-related outcomes in women with epilepsy. It will provide presentations and discussion of the most up-to-date information from the major antiepileptic drug (AED) pregnancy registries and other data regarding pregnancy outcomes. The goal is to improve the ability to make evidence-based decisions in treating women of childbearing age who have epilepsy.

Sleep and Epilepsy – The Impact of Nocturnal Interictal Epileptiform Discharges on Cognition and Behavior in Children with Epilepsy

Coordinator: Nancy R. Foldvary-Schaefer, D.O.
 Speakers: James J. Riviello, M.D., Kelvin Yamada, M.D.

Sleep is a potent activator of seizures and interictal epileptiform discharges (IEDs) in certain epilepsy syndromes. While the effects of seizures have been fairly well elucidated, the consequences of nocturnal IEDs on cognition and behavior remains somewhat controversial. This SIG will address the impact and treatment of nocturnal spiking in benign childhood epilepsy with centrotemporal spikes, Landau-Kleffner syndrome and electrical status epilepticus in sleep.

Translational Research – Progress and Opportunities in Epilepsy Therapy

Coordinators: Orrin Devinsky, M.D., Warren Lammert
 Speakers: Orrin Devinsky, M.D., Steven C. Schachter, M.D., W. Allen Hauser, M.D., Ph.D., Michael A. Rogawski, M.D., Ph.D., Stephen D. Collins, M.D., Ph.D.

Speakers will cover the topics of the definition of and evidence of progress since 1950; models; historical perspective on drugs and devices in development; epilepsy subsegments and opportunities in other CNS markets.

Tuberous Sclerosis Complex (TSC) – Understanding the Molecular Mechanisms of TSC

Coordinators: Gregory L. Holmes, M.D., Vicky Whittemore, Ph.D.
 Speakers: TBD

The TSC SIG will explore the role of the TSC1/2 protein complex in the mTOR signaling pathway in epilepsy in TSC and focal cortical dysplasia.

3:30 p.m. – 5:00 p.m.

Reception: 2:30 p.m. – 3:30 p.m.

5th Judith Hoyer Lecture in Epilepsy (Program details to come)

5:00 p.m. – 6:00 p.m.

Practice Resources for Professionals in Epilepsy Care

Coordinators: Peggy O. Clark, RN, M.S.N., Sandra M. Cushner-Weinstein, RPT, LCSW-C

The Professionals in Epilepsy Care Education Subcommittee invite their colleagues to participate in an interactive show and tell of practice resources during the Friday evening pre-symposia reception. Samples of your best patient materials and educational tools can be made available for your colleagues to review and discuss. If you are interested in sharing your materials, contact Cheryl-Ann Tubby in the AES office at ctubby@aesnet.org to reserve a table.

6:00 p.m. – 8:30 p.m.

**AET Symposium:
Generic Antiepileptic Drug Substitution –
Sorting Out the Myth from the Science**

Overview

This symposium is designed to specifically address what is known and what is not known about generic antiepileptic drugs. As more brand-name antiepileptic drugs come off patent and patients are started initially or moved to generics, clinicians must be well versed about the potential risks associated with generic substitution. Moreover, physicians and patients should make informed decisions based on scientific fact rather than myth and speculation. This symposium will address these and other factors important to the practicing neurologist whose patient is faced with the option of generic substitution of antiepileptic drugs.

Learning Objectives

- ▶ Discuss regulatory guidelines, laws regarding bioequivalence, and the positions of professional associations regarding generic drug substitution for the management of patients who are started on generic drugs or switched from brand to generic formulations
- ▶ Assess the immediate and long-term effects of breakthrough seizures and adverse events on the brain that may result from changes in antiepileptic drug formulation
- ▶ Assess the medical implications for the patient of breakthrough seizures and adverse events that may result from changes in antiepileptic drug formulation
- ▶ Analyze the current medical literature and describe ways in which future clinical trials could be designed to assess the impact of generic substitution in order to avoid patient complications.

Target Audience

Neurologists, pharmacists, nurses, neuroscientists, neurosurgeons, and other healthcare professionals involved in the care of patients with epilepsy or who conduct research in epilepsy.

Program

Co-chairs: Tracy A. Glauser, M.D. and H. Steve White, Ph.D.

Introduction and Opening Remarks

Tracy A. Glauser, M.D. and H. Steve White, Ph.D.

Generics 101: Fact vs. Fiction

Jacquelyn Bainbridge, Pharm.D., FCCP
Russell Katz, M.D.

Basic Science: The Effects of Breakthrough Seizures and Adverse Events on the Brain

Asla Pitkänen, M.D., Ph.D., D.Sc.

The Clinical Perspective: What Are the Medical Implications of Breakthrough Seizures and Adverse Events on the Patient and Clinician?

Michael D. Privitera, M.D.

Seeking the Solution: Methods and Madness

Blaise F. D. Bourgeois, M.D.

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 2.25 *AMA PRA Category 1 Credits*SM. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Acknowledgment

This program and its repurposing on the AES Web site is supported by an education grant from UCB, Inc.

6:00 p.m. – 8:30 p.m.

**Hot Topics Symposium:
Epilepsy and the Immune System –
Implications for Pathogenesis and Therapies**

Overview

Markers of activation of innate and adaptive immune responses have been measured in CNS and plasma in experimental models of seizures and in clinical cases of epilepsies with different etiologies. Experimental studies in rodents with perturbed immune/inflammatory systems suggest that immune-related responses may have functional implications in ictogenesis and epileptogenesis. This symposium will focus on the current knowledge in this field to critically discuss mechanistic hypotheses in the study of pathogenesis of epilepsy and recognize new potential therapeutic options.

Learning Objectives

- ▶ Define the cellular components and inflammatory pathways activated by seizures or by pre-existing inflammatory state of the brain using experimental models
- ▶ Define how to interfere experimentally with the activation of specific inflammatory pathways to understand the functional outcome of immune/inflammatory reactions
- ▶ Define the cellular and molecular components of the inflammatory response in epilepsy-associated malformations of cortical development and mesial temporal sclerosis with the aim to formulate mechanistic hypotheses and recognize new potential therapeutic options
- ▶ Recognize the possibility of an autoimmune basis for seizure-related disorders and the clinical features that make an autoimmune basis more likely and to know how best to monitor treatment responses
- ▶ Recognize HHV-6 as an emerging pathogen with recently reported associations of CNS diseases including mesial temporal lobe epilepsy
- ▶ Define new perspectives into the study of pathogenesis of some forms of epilepsy.

Target Audience

Neurologists and epileptologists.

Program

Co-chairs: Annamaria Vezzani, Ph.D. and Tallie Z. Baram, M.D., Ph.D.

Introduction and Opening Remarks

Annamaria Vezzani, Ph.D. and Tallie Z. Baram, M.D., Ph.D.

Innate Immunity and Inflammation: Insights from Experimental Models

Annamaria Vezzani, Ph.D.

Cellular and Molecular Mediators of the Immune/Inflammatory Response in Human Epilepsy: Focus on Mesial Temporal Sclerosis and Malformations of Cortical Development

Eleonora Aronica, M.D., Ph.D.

Serum Antibodies in Epilepsy and Seizure Associated Disorders: Putative Pathogenic Role and Therapeutical Options

Angela Vincent, M.D., Ph.D.

CNS Infection and Temporal Lobe Epilepsy: Is There a Link?

William H. Theodore, M.D.

9:00 a.m. – 12:15 p.m.

Merritt-Putnam Symposium: *Post-Traumatic Epilepsy – Treatable Epileptogenesis?*

Overview

Epilepsy following traumatic brain injury remains one of the major clinical examples of de novo epileptogenesis. Post-traumatic epilepsy affects all age groups, and can be a result of combat injury. To date, no therapies have been clinically employed that prevent post-traumatic epilepsy. Recent clinical research points to new diagnostic tools that may improve detection of epilepsy risk in this population. Experimental models of epilepsy are revealing pathophysiologic mechanisms that shed light on new therapeutic targets for the prevention of epilepsy and disease modification. This symposium will provide an update of relevant translational research and clinical trials that are transforming the management of traumatic brain injury and post-traumatic epilepsy.

Learning Objectives

- ▶ Describe the epidemiology of post-traumatic epilepsy and the clinical evidence for epileptogenesis in this patient population to assist in the identification of patients at risk for epilepsy
- ▶ Discuss the outcomes of past clinical trials for the prevention (or prevention and treatment) of post-traumatic seizures and measures that have been effective to guide new research and treatment considerations
- ▶ Recognize the clinical, electrophysiologic, and neuroradiologic features of post-traumatic epilepsy in humans, and how these may direct future development of antiepileptogenic therapies to improve patient outcomes
- ▶ Assessing data from animal models that investigate traumatic brain injury—including the development of epilepsy in (some of) these models, phenotypes of post-traumatic epilepsy, and preclinical treatments that have improved the recovery after traumatic brain injury—explain their implications in the prevention of post-traumatic epilepsy
- ▶ Identify recent advances in basic research pertaining to the pathophysiology of epilepsy and potential approaches to prophylaxis for epilepsy in patients who have experienced cortical injury
- ▶ Integrate basic science discoveries into concrete clinical trials for the development of therapeutic measures to prevent post-traumatic epilepsy in patients who are at risk.

Target Audience

Epileptologists, neurologists, neuroscientists, pharmacists, residents, and other healthcare professionals involved in the care of persons with epilepsy.

Program

Chair: Frances E. Jensen, M.D.

Introduction and Opening Remarks

Frances E. Jensen, M.D.

Epilepsy After Head Injury – An Overview

Daniel H. Lowenstein, M.D.

Preventing and Treating Post-Traumatic Seizures: The Human Experience

Nancy R. Temkin, Ph.D.

Post-Traumatic Epilepsy: The Endophenotypes of a Human Model of Epileptogenesis

Ramon Diaz-Arrastia, M.D., Ph.D.

From Traumatic Brain Injury to Post-Traumatic Epilepsy: What Animal Models Tell About the Process and Treatment Options

Asla Pitkänen, M.D., Ph.D., D.Sc.

Epileptogenesis Following Cortical Injury: Cellular and Molecular Mechanisms as Targets for Potential Prophylaxis

David A. Prince, M.D.

Post-Traumatic Epilepsy: The Challenge of Translating Discoveries in the Laboratory to Pathways to a Cure

Marc A. Dichter, M.D., Ph.D.

Credit Designation

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

2:30 p.m. – 4:00 p.m.

Special Interest Group Meetings

Children’s Hour – Malignant Epilepsy Syndromes in Infants

Coordinators: Susan Koh, M.D., Sookyong Koh, M.D., Ph.D.

Speakers: W. Donald Shields, M.D., Ingrid Scheffer, Ph.D., M.B.B.S., Miriam Mesler, Ph.D.

This is a special interest group consisting of pediatric neurologists and epileptologists, professionals in epilepsy care who mainly deal with children, and adult neurologists with interest in children. The topic for this year is on the clinical and basic science mechanisms of malignant epilepsy syndrome in infants including Dravet’s syndrome, infantile spasms, Doose syndrome, early myoclonic encephalopathy and Ohtahara’s syndrome. We will have three speakers who will discuss the clinical overview and treatment of the malignant epilepsy syndromes seen in infants, the molecular genetics associated with epileptic encephalopathies, and animal model of Dravet syndrome and other spectrum of disorders of sodium channel mutations. This will be followed by a question and answer session with the experts.

Controversies in Epilepsy – Effect of Epilepsy Surgery on Memory: Case Discussions

Coordinator: Hans O. Lüders, M.D., Ph.D.

Speakers: Philippe Kahane, M.D., Robert Maciunas, Felix Rosenow, M.D.

Epilepsy surgery can have an impact on memory function, particularly in patients suffering from temporal lobe epilepsy. In this session Hans Lüders will give a brief overview of the topic. This will then be followed by two case presentations that illustrate the problem. The case discussions will be highly interactive with participation of the audience and the faculty listed above. The case presentations will be carefully selected to illustrate cases in which there was concern that surgery could affect memory and to illustrate the strategies clinicians used to approach such cases.

Engineering and Epilepsy – Theories of Seizure Generation

Coordinators: Hitten P. Zaveri, Ph.D., Susan S. Spencer, M.D.

Speakers: TBD

Recent efforts on the development of sensors and use of new modalities to study the brain, application of methods developed for the analysis and modeling of complex systems to predict seizures, and design of implantable devices to control seizures have resulted in interpretations which challenge existing theories for the generation of seizures. This SIG will discuss advances in our understanding of seizure generation, a research area where efforts are often synergistic with those listed above and where advances have resulted from novel interdisciplinary approaches.

Genetics – The ABCs of ABC Transporters in Epilepsy

Coordinators: Thomas N. Ferraro, Ph.D., Russell J. Buono, Ph.D.

Speakers: Damir Janigro, Ph.D.

Studies of ABCB1 transporter genes in epilepsy have focused upon the potential for genetic variation to influence responsiveness to antiepileptic drugs (AEDs) yielding highly equivocal results. Related to this, evidence now suggests strongly that common AEDs are not substrates for ABCB1 transport. Significant association between ABCB1 variation and predisposition to develop epilepsy may help reconcile previous results. Is ABCB1 a pharmacogenetic factor, a susceptibility factor, or both?

Junior Investigators’ Workshop – Preparing for Promotion

Coordinators: Manisha N. Patel, Ph.D., Margaret P. Jacobs, Ph.D., Randall Stewart, Ph.D.

Speakers: TBD

This year’s Junior Investigators’ SIG will focus on career advancement with a specific focus on promotion-related issues. Topics will include the process and criteria for advancement in different institutional tracks, tenure process, developing a promotion dossier, and special promotion-related issues of concern for physician-scientists and women.

MEG/MSI – Analyzing Clinical MEG Data: Going Beyond ECD

Coordinator: Wenbo Zhang, M.D., Ph.D.
Speakers: TBD

Single equivalent current dipole model (ECD) is proven to be a reliable model in clinical application for somatosensory, visual field and receptive language mapping and epileptogenic zone localization. Dipole represents the center of the gravity of neuronal activity. For simultaneous multiple sources or large area sources, the ability of ECD can be limited. ECD and alternative methods, such as current density and beamforming, will be discussed.

Neuropharmacology – Generic Antiepileptic Drugs: Is There a Problem?

Coordinators: Andres M. Kanner, M.D., Barry E. Gidal, Pharm.D.
Speakers: TBD

With the impending availability of several new AEDs as generic drugs, the safety and efficacy of generic AEDs is being reviewed and questioned by clinicians, professional societies, patient advocacy groups and third party payers. In this year's Neuropharmacology SIG we will review the available data on the pitfalls associated with the conversion of first and second generation AEDs from brand to generic formulations. As this topic is of growing global concern, this year's meeting will focus not only on biopharmaceutical considerations, but will also include discussion of international perspectives regarding approval and access to generic AEDs.

Neuropsychology – Social Cognition in Epilepsy

Coordinator: Marilyn Jones-Gotman, Ph.D.
Speakers: Heidi E. Kirsch, M.D., M.S., Hennric Jokeit, Ph.D., Mary Lou Smith, Ph.D., Anna Rita Giovagnoli

A broad view of social cognition, which intersects with perception, memory, emotion, empathy and theory of mind, will be taken. Six speakers will introduce different facets of it in short talks, to lay the groundwork for audience participation in a general discussion. Talks will include an overview of this field and some data on social cognition studies with patients. Neural substrates and assessment methods will be reviewed.

Nursing Research – Collaboration Between Academicians and Clinicians in Initiating Research Projects

Coordinators: Angela M. McNelis, Ph.D., Colleen Dilorio, Ph.D., RN, Rebecca Schultz, RN, M.S.N., CPNP
Speakers: TBD

This year's program will start with a short presentation that focuses on collaboration between academicians and clinicians in initiating research projects followed by a discussion of specific questions/ideas that would include IRB issues, funding mechanisms, etc.

Women's Issues with Epilepsy – Current Management Practices for the Pregnant Woman with Epilepsy

Coordinators: Joyce Liporace, M.D., James W. McAuley, Ph.D.
Speakers: TBD

Join us for a discussion regarding current standard of care for the pregnant woman with epilepsy. We will discuss many aspects including folic acid supplementation, risks of AEDs, the need to monitor AED blood levels, Vitamin K, risk of seizures during pregnancy, considerations regarding labor and delivery, breastfeeding and more. We will provide practical suggestions for the management of the pregnant woman with epilepsy.

4:30 p.m. – 6:00 p.m.

Investigators' Workshop Poster Session

This new evening poster session features refreshments and basic science posters in the poster area adjacent to the exhibit hall.

5:00 p.m. – 7:30 p.m.

Annual Fundamentals of Epilepsy: Pharmacology 101

Overview

This symposium is designed to provide a basic background on the significant roles that pharmacology and pharmacokinetics play in the efficacy and safety of antiepileptic drugs (AEDs). Specifically, the symposium will address the pharmacologic actions that contribute to the anticonvulsant properties of the various AEDs. Basic pharmacokinetic and pharmacogenetic parameters in the treatment of patients with epilepsy, as well as drug interactions, and their effect on AED dosing, efficacy, and safety will be discussed.

Learning Objectives

- ▶ Evaluate the core mechanisms of action of AEDs and their potential relationship to individual therapeutic responses in order to guide the management of patients
- ▶ Given the basic pharmacokinetic and pharmacogenetic characteristics of AEDs, recognize important considerations for patients taking AEDs including dosing, efficacy, safety, and drug interactions
- ▶ Describe the basic mechanisms of AED-mediated pharmacokinetic interactions and their clinical implications to patients receiving long-term medication for their epilepsy.

Target Audience

Physicians, nurses, pharmacists, and other healthcare professionals.

Program

Chair: Gail D. Anderson, Ph.D.

Introduction and Opening Remarks

Gail D. Anderson, Ph.D.

Mechanism of Action of Antiepileptic Drugs

H. Steve White, Ph.D.

Pharmacokinetics: ABCs and the Antiepileptic Drugs

Gail D. Anderson, Ph.D.

Drug Interactions: From Principles to Practice

Barry E. Gidal, Pharm.D.

Credit Designation

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

5:00 p.m. – 7:30 p.m.

Spanish Symposium: *Surgical Evaluation*

Overview

This symposium will explore the presurgical evaluation of patients with medically refractory epilepsy and the relative contributions of various clinical tests to the localization of the epileptogenic regions in temporal and extratemporal lobe epilepsy. Differences in approaches and controversies regarding appropriate and necessary evaluation procedures in lesional and non-lesional epilepsies will be discussed. Issues especially pertinent to cost-effective practice will be highlighted. Presentations of presurgical evaluation protocols in Epilepsy Centers from several countries will be followed by debate and discussion with attendee participation.

Learning Objectives

- ▶ Evaluate presurgical diagnostic options in patients with refractory non-lesional temporal lobe epilepsy so that surgical eligibility is determined in a cost-effective manner
- ▶ Evaluate presurgical diagnostic options in patients with refractory lesional temporal lobe epilepsy so that surgical eligibility is determined in a cost-effective manner
- ▶ Evaluate presurgical diagnostic options in patients with refractory non-lesional extratemporal lobe epilepsy so that surgical eligibility is determined in a cost-effective manner
- ▶ Evaluate presurgical diagnostic options in patients with refractory lesional extratemporal lobe epilepsy so that surgical eligibility is determined in a cost-effective manner.

Target Audience

Neurologists and other healthcare professionals involved in the care of children and adults with epilepsy, as well as those involved in the care of patients with other neurological diseases. This symposium will be presented in Spanish, thus facilitating comprehension and enhancing participation of meeting attendees from Spanish speaking countries.

Program

Co-chairs: Vicente J. Iragui, M.D., Ph.D. and Manuel Campos, M.D.

Introduction and Opening Remarks

Vicente J. Iragui, M.D., Ph.D.

Presurgical Evaluation of Lesional and Non-lesional Temporal Lobe Epilepsy

Samuel L. Wiebe, M.D.

Presurgical Evaluation of Lesional and Non-lesional Extratemporal Lobe Epilepsy

Hans O. Lüders, M.D., Ph.D.

Presurgical Evaluation Protocols: Cost-Effective Approaches

Manuel Campos, M.D.

Round Table Discussion

Faculty and Attendees

Credit Designation

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

5:00 p.m. – 8:00 p.m.

Professionals in Epilepsy Care #1: *Basic Principles of the Treatment of Frequent Psychiatric Comorbidities in Epilepsy – What a Non-Psychiatrist Should Know*

Overview

The evaluation and care of patients with epilepsy who have comorbid psychiatric conditions is an important component of their care. This clinical workshop will provide a practical approach to the diagnosis and treatment of mood disorders, anxiety, and attention deficit disorder in adults and children with epilepsy. A multidisciplinary approach with panel discussions and audience participation will address problems that lead to delayed diagnosis, lack of access to care, who provides and who should provide care, and the psychosocial consequences. Strategies to these issues will be explored.

Learning Objectives

- ▶ Develop a strategy to assess pediatric and adult patients for mood disorders, anxiety, and attention deficit disorder so that all patients are appropriately diagnosed
- ▶ Formulate a treatment plan using a multidisciplinary approach to provide optimum quality of life outcomes for these patients
- ▶ For your pre-surgical patients, identify comorbid (and lifetime) psychiatric disorders and counsel on potential complications after epilepsy surgery, based on the presurgical psychiatric evaluation.

Target Audience

Epileptologists, adult and pediatric neurologists, psychiatrists, psychologists, neuropsychologists, nurses, and social workers.

Program

Chair: Mimi Callanan, RN, M.S.N.

Introduction and Opening Remarks

Mimi Callanan RN, M.S.N.

Case-Based Panel Discussion

John J. Barry, M.D.
 Madison Berl, Ph.D.
 Rochelle Caplan, M.D.
 Sandra M. Cushner-Weinstein, RPT, LCSW-C
 David W. Dunn, M.D.
 Marlis Frey, M.S.N., RN, CNP
 Patricia A. Gibson, M.S.S.W.
 Frank G. Gilliam, M.D., M.P.H.
 Andres M. Kanner, M.D. (Moderator)
 W. Curt LaFrance, Jr., M.D.
 Jay A. Salpekar, M.D.
 Maureen Sheehan, RN, M.S., PNP
 Raj D. Sheth, M.D.

Credit Designation

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

This activity will be submitted to the Association of Rehabilitation Nurses (ARN) for 3.0 contact hours. ARN is accredited as an approver of continuing nursing education by the American Nursing Credentialing Center's Commission on Accreditation.

6:00 p.m. – 7:30 p.m.

Investigators' Workshop

Broad-Band Intracranial EEG in Patients with Epilepsy: A Window to Human Networks

Moderators: Gregory A. Worrell, M.D., Ph.D., Brian Litt, M.D.

Speakers: Gyorgy Buzaki, M.D., Ph.D., Michael Kahana, Ph.D., Gregory Worrell, M.D., Ph.D., Kendel Lee, M.D., Ph.D.

8:00 a.m. – 4:00 p.m.

**Annual Course: *Decision Points in Epilepsy*
— *Bedside to Bench***

Overview

This symposium is designed to approach important controversies in the treatment of epilepsy. During the lifetime of refractory epilepsy, patients' questions about treatment choices and patient care arise where the answer is not obvious. The goal of this course is to present the information available in about 20 minutes and then debate the points most important to physicians. A case history will be presented throughout the course.

Target Audience

Basic scientists, epileptologists, practicing neurologists, and professionals in epilepsy care.

Program

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

8:00 – 8:10 a.m. **Opening Remarks and Introduction of Patient "Sally"**
Elinor Ben-Menachem, M.D., Ph.D.

1. Treating New Onset Epilepsy

8:10 – 8:30 a.m. **When to Start Treatment and with What Evidence**
Anthony Marson, M.D.

- ▶ Evaluate the benefits and harms associated with immediate or deferred AED treatments in patients with single or few seizures, and review how new AEDs compare for longer term efficacy and tolerability in treating patients with a new diagnosis of epilepsy.

8:30 – 8:55 a.m. **Debate: When Is a Seizure Epilepsy?**
Robert S. Fisher, M.D., Ph.D. and Ilo E. Leppik, M.D.

- ▶ Discuss the evidence that supports if one seizure is enough or if multiple seizures are necessary to determine if a patient has epilepsy.

2. What Have Genetics Contributed to Clinical Practice?

8:55 – 9:25 a.m. **Debate: Genetic Information Both in Animals and Humans Helps Us Treat Patients vs. Genetic Information Does Not Help at All**
Antonio V. Delgado-Escueta, M.D. and Blaise F.D. Bourgeois, M.D.

- ▶ Discuss the impact of currently available genetic information on epileptic disorders on the treatment of patients.

9:25 – 9:45 a.m. **Break**

3. The Silent Period: When Is It Appropriate to Stop Treatment After Remission?

9:45 – 10:05 a.m. **What Is Known from Animal Models?**
Raman Sankar, M.D., Ph.D.

- ▶ Identify available information about animal models of epilepsy and if they indicate when treatment can be safely stopped in human epilepsy.

10:05 – 10:25 a.m. **Does the Length of Seizure Freedom off Medication Affect Recurrence?**
Peter Camfield, M.D.

- ▶ Explain the optimal duration of seizure freedom before discontinuing AED treatment, the chances of success and the risks for discontinuation to be followed for intractable epilepsy.

10:25 – 10:50 a.m. **Debate: Should We Stop AEDs or Not After Successful Epilepsy Surgery?**
Andrew J. Cole, M.D. and Samuel Wiebe, M.D.

- ▶ Interpret the existing data and clinical factors that should guide decisions to continue or discontinue anticonvulsant drug treatment after epilepsy surgery.

4. AEDs During Pregnancy

10:50 – 11:10 a.m. **Basic Mechanisms of Teratogenicity**
Renato Rozental, M.D., Ph.D.

- ▶ Discuss the rationales for the occurrence of major fetal malformations in humans and how antiepileptic drugs can contribute to their development.

11:10 – 11:30 a.m. **What Is Known About AEDs in Patients and Which AEDs Seem to be Safest?**
Page Pennell, M.D.

- ▶ Differentiate between the AEDs' relative risk for major congenital malformations in children born to women with epilepsy.

11:30 – 1:00 p.m. **Lunch Break in the Exhibit Hall**

5. Generics and Brand Name AEDs

1:00 – 1:20 p.m. **Debate: Generics vs. Brand Name AEDs**
Torbjorn Tomson, M.D., Ph.D. and Barry E. Gidal, Pharm.D.

- ▶ Describe the regulatory and biopharmaceutical criteria for approval of generic drug products, and critique the clinical data regarding both the adequacy and appropriateness of generic substitution of AEDs in patients with epilepsy.

6. Status Epilepticus: What Is the Third Step?

1:20 – 1:40 p.m. **Animal and Pharmacological Data on the Treatment of Status with New AEDs**
Claude G. Wasterlain, M.D.

- ▶ Identify which new drugs are available to treat SE, the potency and pharmacokinetics, risks, and the clinical evidence on which to base treatment.

1:40 – 2:05 p.m. **Debate: The Place of the Newer I.V. Drugs in Treating Status Epilepticus**

David M. Treiman, M.D. and James W. Wheless, M.D.

- ▶ Describe the treatment of convulsive status epilepticus and express what role, if any, the new AEDs may have in the management of GCSE.

7. The Pharmacoresistant and Surgically Resistant Patient: Is There Anything Left?

2:05 – 2:25 p.m. **Review of Animal Data and How It Applies to Patients**
Robert S. Sloviter, Ph.D.

- ▶ Differentiate between the features of human temporal lobe epilepsy and those of existing animal models to gain an understanding of how well or how poorly the current models reflect the human neurological condition.

2:25 – 2:45 p.m. **Break**

2:45 – 3:05 p.m. **What Are the Practical Options for Children and Adults?**
Gregory D. Cascino, M.D.

- ▶ Identify treatment options available for children and adults with intractable epilepsy including palliative therapy (corpus callosotomy, VNS, ketogenic or Atkins diet) and/or investigational studies utilizing AES therapy in conjunction with deep brain stimulation or responsive neurostimulation.

8. SUDEP

3:05 – 3:25 p.m. **What Is Known About the Mechanism of SUDEP?**
Elson L. So, M.D.

- ▶ Determine the mechanisms that potentially contribute to SUDEP risk of the patient.

3:25 – 3:45 p.m. **Debate: Should Patients Be Told About SUDEP?**
Martin J. Brodie, M.D. and Gregory L. Holmes, M.D.

- ▶ Recognize the issues surrounding the available medical knowledge on SUDEP including the potential for prevention coupled with the patient's and their family's right to know about the possibility of this catastrophic outcome.

3:45 – 4:00 p.m. **Conclusion**
Elinor Ben-Menachem, M.D., Ph.D.

Credit Designation

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8:00 a.m. – 5:00 p.m.**Investigators' Workshop****Overview**

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

The four Clinical Investigators' Workshops provide a series of working seminars in areas of active clinical investigation and controversy. For each workshop, two or three investigators present current material during the first hour that is designed to generate and facilitate a constructive discussion among speakers and audience participants for the remaining 30 minutes. Workshops cover basic research germane to each topic in addition to relevant and recent human studies. Speakers present results from their ongoing research and place their findings in the context of current understanding. This year's topics include: Pathways of Brain Development: Genetic and Phenotypic Characterization of Malformations of Cortical and Cerebellar Development; Ictal and Interictal fMRI; Disparities of Health Care in Epilepsy Populations; Imaging Brain Connectivity – Not Just Pretty Pictures.

The 11 Basic Science Workshops will highlight a number of research areas which have been developing rapidly over the last year. One focus of this year's workshops is the dissection of novel mechanisms of brain plasticity (The Proliferating Brain and Its Role in Epileptogenesis; Mechanisms Regulating Gene Expression; Homeostatic Plasticity and Epilepsy; Emerging Cell and Molecular Targets for Antiepileptogenesis; Sick Axonal Terminals and Epileptogenesis). A second set of workshops will cover mechanisms of seizure initiation and spread, both in experimental models of epilepsy and epilepsy patients (Broad-Band Intracranial EEG in Patients with Epilepsy: A Window to Human Networks; The Transition from Interictal to Ictal Bursting: An Update; Varied Roles of BK-type Potassium Channels in the Promotion and Inhibition of Neuronal Excitability: Which Are Important for Epilepsy?; Raised Extracellular Potassium: Convulsant and Anticonvulsant Mechanisms). Finally, two workshops will address the emerging role of energy supply and failure thereof in chronic epilepsy (Metabolic Control of Epilepsy; Mitochondrial (dys)function and Epilepsy). Many of these workshops have implications for future therapeutic strategies. The Basic Science Workshops are scheduled on three days of the meeting. Most of the workshops will run as concurrent sessions on Sunday, while three nonconcurrent workshops are scheduled for Saturday evening and Monday afternoon.

Target Audience

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

Program

Investigators' Workshop: John Huguenard, Ph.D., Chair, and Heinz Beck, M.D., Vice Chair
Clinical Investigators' Workshop: Vijay Thadani, M.D., Chair

Morning Session I – 8:00 a.m. - 9:30 a.m.**The Proliferating Brain and Its Role in Epileptogenesis**

Moderator: Annamaria Vezzani, Ph.D.

Speakers: Jack M. Parent, M.D., Eleonora Aronica, M.D., Ph.D., Teresa Ravizza, Ph.D., Mireille Lerner-Natoli, Ph.D.

Raised Extracellular Potassium: Convulsant and Anticonvulsant Mechanism

Moderator: Peter L. Carlen, M.D., FRCPC

Speakers: Peter L. Carlen, M.D., FRCPC, Dominique Durand, Ph.D., Igor Timofeev, Yoel Yaari, Ph.D.

Pathways of Brain Development: Genetic and Phenotypic Characterization of Malformations of Cortical and Cerebellar Development

Moderator: Eva Andermann, M.D., Ph.D., FCCMG

Speakers: William B. Dobyns, M.D., Christopher A. Walsh, M.D., Ph.D., Eva Andermann, M.D., Ph.D., FCCMG, James L. Kennedy, M.D., FRCPC

Break: 9:30 a.m. - 10:00 a.m.

Morning Session II – 10:00 a.m. - 11:30 a.m.**Mechanisms Regulating Gene Expression**

Moderator: Amy Brooks-Kayal, M.D.

Speakers: Raymond Dingledine, Ph.D., Avtar Roopra, Ph.D., Shelley Russek, Ph.D., Amy Brooks-Kayal, M.D.

Varied Roles of BK-type Potassium Channels in the Promotion and Inhibition of Neuronal Excitability: Which Are Important for Epilepsy?

Moderator: Russell M. Sanchez, Ph.D.

Speakers: Alison Barth, Ph.D., George Richerson, M.D., Ph.D., Johan Storm

Ictal and Interictal fMRI

Moderator: William D. Gaillard, M.D.

Speakers: Hal Blumenfeld, M.D., Ph.D., Eliane Kobayashi, M.D., Ph.D., Helmut Laufs, M.D.

11:30 a.m. - 1:30 p.m.

Poster Session for Basic Scientists (Boxed Lunch)**Afternoon Session I – 1:30 p.m. - 3:00 p.m.****Homeostatic Plasticity and Epilepsy**

Moderator: Heinz Beck, M.D.

Speakers: Eve Marder, Ph.D., Ivan Soltesz, Ph.D., Jeffrey L. Noebels, M.D., Ph.D.

Metabolic Control of Epilepsy

Moderator: Carl E. Stafstrom, M.D., Ph.D.

Speakers: Jong M. Rho, M.D., Manisha N. Patel, Ph.D., Kristopher J. Bough, Ph.D., Avtar Roopra, Ph.D.

Disparities of Health Care in Epilepsy Populations

Moderator: William H. Theodore, M.D.

Speakers: William H. Theodore, M.D., Karen Lynn Parko, M.D., Jorge Burneo, M.D., M.S.P.H., Elizabeth J. Waterhouse, M.D.

Break: 3:00 p.m. - 3:30 p.m.

Afternoon Session II – 3:30 p.m. - 5:00 p.m.**Emerging Cell and Molecular Targets for Antiepileptogenesis**

Moderator: David C. Henshall, Ph.D.

Speakers: Asla Pitkanen, M.D., Ph.D., Yuri Bozzi, David C. Henshall, Ph.D., Detlev Boison, Ph.D.

The Transition from Interictal to Ictal Bursting: An Update

Moderator: Melanie Tallent, Ph.D.

Speakers: Gilles Huberfeld, M.D., Li-Rong Shao, M.D., Waldemar Swiercz, Ph.D., Melanie Tallent, Ph.D.

Imaging Brain Connectivity – Not Just Pretty Pictures

Moderator: Matthias J. Koepp, M.D., Ph.D.

Speakers: Peter Basser, Marco Catani, Matthias J. Koepp, M.D., Ph.D.

4:00 p.m. – 6:00 p.m.

Professionals in Epilepsy Care #2: Unique Perspectives of Adolescents: Surviving the Teenage Years

Overview

Adolescents with epilepsy face many unique challenges. In patients with the “classic” history of TLE there is a latent period before refractory seizures emerge around the time of puberty. In addition, all adolescents face issues around identity formation, peer relations, and the emergence of anxiety and depression, but these issues are magnified in epileptic adolescents. This symposium will therefore have two main focuses. The first focus will be on understanding the influence of hormones on epileptic adolescents and the related effects on medication management. The second focus will be on the psychological and psychosocial needs of these epileptic adolescent patients.

Learning Objectives

- ▶ Counsel the anxious adolescent patient with epilepsy on the influence of hormones on emotions in order to ease or reduce anxiety
- ▶ Reinforce to the adolescent with epilepsy the existence of normal adolescent challenges so that the patient will put the challenges of epilepsy into a broader context.

Target Audience

Epileptologists, adult and pediatric neurologists, psychiatrists, psychologists, neuropsychologists, nurses and social workers.

Program

Co-chairs: Kathryn O’Hara, RN and Michael Westerveld, Ph.D., ABPP

Introduction and Opening Remarks

Michael Westerveld, Ph.D., ABPP

Psychological and Psychosocial Implications in Adolescents with Epilepsy: A Unique Perspective

Mary Lou Smith, Ph.D.

Hormonal Influences and Treatment in Adolescents with Epilepsy

Pavel Klein, M.D.

Case Study Discussion

Kathryn O’Hara, RN

Credit Designation

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

This activity will be submitted to the Association of Rehabilitation Nurses (ARN) for 2.0 contact hours. ARN is accredited as an approver of continuing nursing education by the American Nursing Credentialing Center’s Commission on Accreditation.

6:00 p.m. – 7:30 p.m.

William G. Lennox Trust Fund Reception

Share the dream to cure epilepsy! Come mingle with your colleagues and show your support at the annual reception. A voluntary, tax deductible contribution of \$50, or whatever you can contribute, will benefit the Lennox Research Fund. To assist in planning, advanced registration is required. Make plans to have dinner with your colleagues after the event.

9:00 a.m. – 11:30 a.m.

Presidential Symposium: *Found in Translation — New Targets for Therapies*

Overview

Epilepsy research scientists and clinicians are collaborating in translating scientific discoveries into new therapies for the intractable epilepsies. Discoveries of clinical researchers are guiding the development of relevant animal models. Studies in these models are leading to the identification of what appear to be key molecular steps in the genesis of epilepsy. These molecular mechanisms provide new targets for the development of rational therapies, which can be tested in these same models. As an example of the progress being made, this symposium will review the most recent studies of the consequences of prolonged febrile seizures in children. Potential targets for new therapies that have been discovered in models of febrile seizures, head injury, neonatal seizures, and kindling will be discussed.

Learning Objectives

- ▶ Describe an area of the brain impacted in some children by prolonged febrile seizures and the anatomical changes observed by magnetic resonance imaging that may inform targets for therapeutic research
- ▶ Discuss potential new antiepileptogenic drug targets in the cannabinoid signaling pathway that regulate transmitter release and how they may be applied to treatment of febrile seizures
- ▶ Identify a cellular/molecular mechanism involved in seizure generation or epileptogenesis that is unique to the immature nervous system and its application to seizure control in young children
- ▶ Define the role of the neurotrophin receptor, TrkB, in epileptogenesis as seen in an animal model of temporal lobe epilepsy and how it may play a part in antiepileptogenic treatment for children.

Target Audience

Epileptologists, neurologists, neuroscientists, pharmacists, residents, and other healthcare professionals involved in the care of persons with epilepsy.

Program

Chair: John W. Swann, Ph.D.

Introduction and Opening Remarks

John W. Swann, Ph.D.

Febrile Status Epilepticus: Creating a Target for Therapy?

Darrell V. Lewis, M.D.

Cannabinoid Receptors as Novel Antiepileptogenic Drug Targets

Ivan Soltesz, Ph.D.

Unique Targets for Seizure Control and Antiepileptogenesis in the Immature Brain

Frances E. Jensen, M.D.

TrkB: A Molecular Target for Antiepileptogenic Therapeutics

James O. McNamara, M.D.

Credit Designation

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2:15 p.m. – 3:00 p.m.

**Lennox Lecture
(Title to come)**

Lennox Lecturer: Thomas P. Sutula, M.D., Ph.D.

3:00 p.m. – 6:00 p.m.

Investigators' Workshop

3:00 p.m. - 4:30 p.m.

Sick Axonal Terminals and Epileptogenesis

Moderator: David A. Prince, M.D.

Speakers: David A. Prince, M.D., David A. McCormick, Ph.D., Raphael Gutierrez, Ph.D.

4:30 p.m. - 6:00 p.m.

Mitochondrial (dys)function and Epilepsy

Moderator: Manisha N. Patel, Ph.D.

Speakers: Manisha N. Patel, Ph.D., I.J. Reynolds, Wolfram Kunz, Ph.D., Uwe Heinemann, M.D.

4:30 p.m. – 6:00 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 concise overviews of their work, which have been selected for the Highlights Session from among all the pediatric poster and platform presentations throughout the meeting. The objective of the session is to provide a focused overview of this year's key scientific offerings in diverse areas of pediatric epilepsy.

4:30 p.m. – 6:00 p.m.

Platform Highlights

There will be two concurrent sessions consisting of selected key scientific abstracts submitted to the Annual Meeting.

7:00 p.m. – 9:00 p.m.

**Pediatric State of the Art Symposium:
*Strategic Approaches to Pediatric Epilepsy Surgery***

Overview

This symposium will address the tactics for identifying pediatric epilepsy surgery candidates and developing the plan for surgical intervention. Faculty will address worldwide variations in surgical strategy; the influence of lesion timing and pathology; defining the epileptogenic zone when MRI is normal; and approach to the child with multiple lesions.

Learning Objectives

- ▶ Considering the different strategies applied, worldwide, in pediatric epilepsy surgery, choose the appropriate surgery plan for the patient
- ▶ When identifying candidates for pediatric epilepsy surgery and deciding on a strategy for care, appreciate the influence of lesion timing and pathology on patient outcomes
- ▶ When the MRI is normal in children with refractory epilepsy, define the epileptogenic zone for resection in order to effect positive surgical outcomes
- ▶ For a child with refractory epilepsy and multiple lesions on MRI, develop a surgical approach that results in positive patient outcomes.

Target Audience

Adult and pediatric neurologists and epileptologists, epilepsy fellows, epilepsy nurses, and EEG technologists.

Program

Co-chairs: Elaine Wyllie, M.D. and Michael S. Duchowny, M.D.

Introduction and Opening Remarks

Elaine Wyllie, M.D.

Worldwide Variations in Pediatric Epilepsy Surgical Practice

J. Helen Cross, M.D., Ph.D.

Surgical Strategy for Epilepsy Due to Lesions Acquired After Infancy

Gary W. Mathern, M.D.

Surgery for Epilepsy Due to Congenital and Perinatal Lesions

Elaine Wyllie, M.D.

Defining the Epileptogenic Zone When MRI Is Normal: Noninvasive Evaluation

William D. Gaillard, M.D.

Defining the Epileptogenic Zone When MRI Is Normal: Invasive Evaluation

Michael S. Duchowny, M.D.

Surgical Approach to the Child with Epilepsy and Multiple Lesions on MRI

A. Simon Harvey, M.D.

Credit Designation

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

7:00 p.m. – 9:30 p.m.

Symposium: *What Is a Seizure?*

Overview

This symposium addresses the question, what is a seizure, from a number of different perspectives. Seizures in simpler nervous systems of worms, flies and fish will be described to help establish fundamental features. Modeling and experimental data from brain slice experiments will be presented to illustrate mechanisms of interictal-to-ictal transitions, fast oscillations, and seizure spread and termination. In vivo data from a rat model of temporal lobe epilepsy will reveal changes in hippocampal activity that precede seizure onset by minutes. Recordings from patients will show novel broadband data and identify clinically relevant questions.

Learning Objectives

- ▶ Recognize fundamental features of seizures generated in simpler nervous systems to improve accurate identification of seizures in patients
- ▶ Define basic mechanisms of seizures and EEG phenomenology, including roles of cellular intrinsic properties, synaptic interactions, and electrical coupling via gap junctions, in seizure generation, propagation, and termination to reveal potential targets for development of new therapeutic interventions
- ▶ Identify potential relationships between generation of interictal and ictal activity within a given neural network to understand clinical significance of interictal EEG spikes
- ▶ Recognize that significant changes in neuronal activity precede onset of spontaneous limbic seizures in vivo, which offers potential new approaches for predicting seizures to improve treatment and patient quality of life
- ▶ Describe limitations of commonly used EEG recording technology for detecting high-frequency events related to seizure onset
- ▶ Identify what constitutes a seizure in patients evaluated with EEG recording according to scientific and clinical criteria or understand points of debate on this topic so that unnecessary treatment based on incorrect interpretation of electrographic data is avoided.

Target Audience

Neurologists and epilepsy researchers.

Program

Co-chairs: Brian Litt, M.D. and Paul S. Buckmaster, D.V.M., Ph.D.

Introduction and Opening Remarks

Brian Litt, M.D.

Seizures in Simpler Nervous Systems

Scott C. Baraban, Ph.D.

Seizures in Brain Slices: Recording CA3

Kevin J. Staley, M.D.

Seizures in Brain Slices: Fast Oscillations and Seizure Phenomena in Neocortex In Vitro

Roger D. Traub, M.D.

Seizures in Brain Slices: Recording Neocortex

Barry W. Connors, Ph.D.

Seizures in Rats: Preictal Hippocampal Activity in a Model of Temporal Lobe Epilepsy

Paul S. Buckmaster, D.V.M., Ph.D.

Seizures in Patients: High Spatio-temporal Resolution Recording in Humans

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

Seizures in Patients: Clinical Translation of Basic Questions

Brian Litt, M.D.

Credit Designation

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

9:00 a.m. – 10:30 a.m.

Plenary II: *Temporal Lobe Epilepsy: Discrete Focus or Spectrum Disorder?*

Overview

Mesial temporal lobe epilepsy (MTLE) has been synonymous with hippocampal sclerosis, such that removal of the latter cures the former. There is increasing information, including recent epidemiological data regarding the long-term outcomes of surgery, that suggests the underlying basis for the disorder is more extensive than originally thought. In this presentation we will examine the current data on the basis for MTLE with the goal of determining key gaps in our knowledge and what might be done to fill the gaps, with the ultimate goal of improving surgical outcomes.

Learning Objectives

- ▶ Discuss the recent data regarding long-term outcomes of temporal lobe surgery and the implications for the pathophysiology of the disorder
- ▶ Explain the considerable variability of the anatomical substrate of temporal lobe epilepsy
- ▶ Evaluate how imaging can be used to define the anatomical substrate more precisely and define the limitations of current imaging approaches
- ▶ Apply experimental data to the clinical setting to create a better approach to temporal lobe epilepsy.

Target Audience

Basic scientists, epileptologists, practicing neurologists and professionals in epilepsy care.

Program

Chair: Edward H. Bertram, M.D.

Introduction and Opening Remarks

Edward H. Bertram, M.D.

Outcomes of Surgery for TLE: What Does That Tell Us About the Pathophysiology of the Disorder?

Gary W. Mathern, M.D.

Beyond Hippocampal Sclerosis: What Is the Real Pathology of TLE?

Maria Thorn, M.B.B.S.

What Can We Really See?: Defining the Focus Through Imaging

J. Helen Cross, M.D., Ph.D.

Lessons from the Lab: Can We Find Some Answers There?

Edward H. Bertram, M.D.

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 1.5 *AMA PRA Category 1 Credits*[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

11:00 a.m. – 12:30 p.m.

Plenary III: *Subcortical Control of Cortical Excitability*

Overview

This plenary will evaluate the role of certain subcortical circuits in seizures and cortical excitability. Dr. Karen Gale will provide an overview and discuss influence of the hindbrain and midbrain circuitry on seizures. Dr. Lucy Brown will review the role of the basal ganglia in seizures, emphasizing an important contribution to seizure control. Dr. Robert Fisher will discuss the role of the thalamus in epilepsy. Each of the talks will discuss how an understanding of the networks can lead to therapeutic advances with electrical brain stimulation or targeted pharmacotherapy.

Learning Objectives

- ▶ Recognize how the vulnerability to epilepsy and the control of seizures can be influenced by brain pathways that are not necessarily part of the network responsible for generating seizures
- ▶ Define the known anatomy and physiology of basal ganglia circuits
- ▶ Discuss the role of the thalamus in a network for generation of generalized seizures and propagation of partial seizures.

Target Audience

Scientists and clinicians performing research about epilepsy or caring for patients with epilepsy.

Program

Co-chairs: Karen Gale, Ph.D. and Robert S. Fisher, M.D., Ph.D.

Introduction and Opening Remarks

Robert S. Fisher, M.D., Ph.D. and Karen Gale, Ph.D.

Subcortical Networks in the Control of Seizure Susceptibility

Karen Gale, Ph.D.

Basal Ganglia and Epilepsy

Lucy Brown, Ph.D.

The Thalamus and Epilepsy

Robert S. Fisher, M.D., Ph.D.

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 1.5 *AMA PRA Category 1 Credits*[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

12:45 p.m. – 2:15 p.m.

Practice Management Course: *Update for 2008*

Chair: Gregory L. Barkley, M.D.

Overview

The Practice Management Course is designed to provide an update on the latest information on billing and coding issues for practicing neurologists and their staff. The course will cover the 2008 Medicare Fee Schedule as well as changes in ICD-9 codes and CPT codes that are of interest to AES members. Many of these regulatory changes are issued in October and November each year so the course will present new information that will be only a few weeks old at the time of the meeting. There will also be an update on performance measures (Pay for Performance) pertinent to epilepsy specialists. Question and answer time will be available. If members have specific questions, they can email Dr. Barkley in advance of the meeting and as many questions as possible will be addressed in the presentation. Dr. Barkley's email address is: barkley@neuro.hfh.edu.

Target Audience

Neurologists, neurosurgeons, residents in neurology, clinical neurophysiology and neurosurgery, physician assistants and nurses, including advanced practice nurses.

12:45 p.m. – 2:15 p.m.
Special Interest Group Meetings

Basic Neuroscience – Dendrites

Coordinators: Karen E. Wilcox, Ph.D., Brenda E. Porter, M.D., Ph.D.
 Speakers: Michael Wong, M.D., Ph.D., Xiang Cai, Ph.D., Christophe Bernard, Ph.D.

Dendrites provide a unique and dynamic environment for summation of synaptic signaling that is altered in several epilepsy models. Three speakers will discuss different aspects of dendritic function, focusing on how alterations in dendrite structure, intracellular signaling and physiology might contribute to epilepsy. We hope to provide an environment for a lively debate about current and future research on dendrites.

Clinical Pharmacology – Cognitive Impact of Antiepileptic Drug Pharmacotherapy

Coordinator: Jeannine Conway, Pharm.D.
 Speakers: TBD

The Clinical Pharmacology SIG is dedicated to exploring innovation in the pharmacotherapy of epilepsy. Through education and research, the SIG supports clinicians who manage the pharmacotherapy of patients with epilepsy.

EEG – Evaluating Epilepsy at the Extremes of the EEG Frequency Spectrum

Coordinator: John S. Ebersole, M.D.
 Speakers: TBD

It is increasingly appreciated that abundant EEG activity exists outside of the traditional delta to beta bandwidth. This year's SIG reviews the methods needed to record ultra high and ultra low frequency EEG, the results of investigations to date, and the potential clinical utility of these data.

How to Obtain NIH Funding – It's Still Possible!

Coordinators: Margaret P. Jacobs, Ph.D., William Benzing, Ph.D., Randall Stewart, Ph.D.
 Speakers: TBD

This year's session will feature an update on what NIH is doing to maximize funding opportunities in the current climate. In addition, successful investigators (basic, clinical and "K" awardees) will provide tips and strategies for writing competitive applications.

Neuroendocrinology – How Can Epilepsy Affect Fertility in Men and Women?

Coordinators: Jana Velisek, M.D., Ph.D., Cynthia I. Harden, M.D., Pavel Klein, M.D.
 Speaker: Erik Tauboll, M.D., Ph.D.

This year's neuroendocrinology special interest group will be devoted to a discussion of the mechanisms of how epilepsy and treatments for epilepsy can affect fertility. We plan to present evidence for reproductive dysfunction related to seizures and antiseizure medications both from the laboratory and the clinic, with a special emphasis on differential effects for men or women with epilepsy. We hope to provoke a lively conversation as to whether infertility is increased in persons with epilepsy, and explore both structural and systemic mechanisms by which this could occur.

Nursing Focus Group – The Role of the Nurse in the Treatment of Refractory Epilepsy: What Are Our Training Needs?

Coordinators: Sandra R. Dewar, RN, MSN, APN
 Speakers: Sarah Kiel, MSN, CPNP, Irene Dustin, MSN, CRNP

Levels of nursing practice in the treatment of refractory epilepsy vary widely across the spectrum of health care delivery. There is currently no formal preparation available to nurses working in this specialty. Program based advanced practice nurses (CNS and NP) are often responsible for coordinating care, treating patients and teaching nurses. This special interest group aims to discuss the challenges of meeting the educational needs of nurses working in different care settings; what do nurses need to know, and how should this teaching be provided.

Patient Reported Outcomes – Health Literacy: Implications for Epilepsy

Coordinators: David M. Ficker, M.D., Rosemarie Kobau, M.P.H.
 Speakers: TBD

The Institute of Medicine defines health literacy as "the degree to which individuals have the capacity to obtain, process, and understand basic health information and services needed to make appropriate health decisions." Given all the possible difficulties and concerns communicating about epilepsy and seizures, health literacy is of paramount importance. This year's SIG will discuss health literacy issues with relevance to epilepsy care.

Pediatric Roundtable – Pediatric Epilepsy: Case Presentations

Coordinator: Elaine Wyllie, M.D.
 Speakers: TBD

Case presentations will provide the basis for discussion of challenges in pediatric epilepsy. Topics will include diagnosis and treatment of epileptic seizures; seizure semiology and EEG features of epilepsy in infants and children; innovative approaches to treatment; recognition and management of congenital and acquired etiologies of pediatric epilepsy; and epilepsy surgery.

Psychiatry in Epilepsy – Psychotherapeutic and Psychoanalytic Approaches to Psychiatric Comorbidity in Epilepsy

Coordinator: Alan B. Ettinger, M.D.
 Speakers: TBD

The Psychiatric SIG meets every year to discuss controversies and advances in our understanding of the complex interface of epilepsy and psychiatry. Topics discussed include depression and anxiety, psychosis, peri-ictal psychiatric symptoms, quality of life in epilepsy, psychosocial issues and pseudoseizures.

SUDEP – What Is Needed to Solve the Enigma?

Coordinators: Jeffrey Buchhalter, M.D., Ph.D., Tess L. Sierzant, RN, M.S.
 Speakers: TBD

Sudden unexpected death in epilepsy (SUDEP) is the most common cause of seizure-related mortality in people with refractory epilepsy. Unfortunately, the mechanism of death is unknown and there are no known preventive measures. There is an urgent need for more information on this disastrous condition. The American Epilepsy Society and Epilepsy Foundation Joint Task Force on SUDEP will present its ongoing work and solicit input from the audience on the issue of collaborative data collection and investigation. The special issue of SUDEP in children will also be presented and discussed with the audience.

Temporal Lobe Club – When Do We Give Up on Drugs and Go for Surgery?

Coordinators: Jacqueline A. French, M.D., Jerome Engel Jr., M.D., Ph.D.
 Speakers: Jacqueline A. French, M.D., Samuel Wiebe, M.D.

After a number of conflicting studies have been published, controversy remains about the definition of "refractory epilepsy." Yet, this definition is critical to the decision about whether to proceed with surgical evaluation. When does the likelihood of remission with AEDs become lower than the likelihood with surgical resection? What are the risks and benefits of trying more drugs, compared with the risks and benefits of early surgery?

2:30 p.m. – 4:00 p.m.

Special Interest Group Meetings

Epilepsy Surgery – Challenging Case Conference

Coordinator: Michael M. Haglund, M.D., Ph.D.

Speakers: TBD

We will continue this year with our “Challenging Case Conference” series. Last year we had over 150 people at the SIG with great discussions and interaction. We would like to include pediatric cases this year, so we are encouraging anyone interested in presenting a short case description with appropriate films to email the coordinator, Michael M. Haglund M.D., Ph.D. at haglu001@mc.duke.edu with a brief description of the case. We will put together five or six of the most interesting cases for discussion. We look forward to another exciting SIG.

Frontal Lobe Epilepsy – Neuroimaging in Frontal Lobe Epilepsy

Coordinator: Barbara E. Swartz, M.D., Ph.D.

Speaker: TBD

The two cornerstones of epilepsy diagnosis are video-EEG and neuroimaging. The latter has a panoply of choices. Which is best in frontal lobe epilepsy or do we need all of them? The speakers will focus on a few areas:

MRSI in FLE – Ken Laxer, M.D. and/or Paul Garcia, M.D.

FDG-PET – Tom Henry, M.D.

MRI volumetric studies – Barbara Swartz, M.D., Ph.D.

fMR – to be announced

“Mystery” cases from the audience are always welcome.

Herbs and Botanicals – Botanicals: What Are They and What Is the Evidence?

Coordinator: Steven C. Schachter, M.D.

Speakers: Steven C. Schachter, M.D., others TBD

We will discuss the processes that plants undergo to become extracts, methods for authenticating and characterizing the constituents of botanicals, and the evidence that specific botanicals have anticonvulsant properties.

Ketogenic Diet – Debating the Ketogenic Diet – 3 Debates (Basic Science, Clinical Research, Dietary Attributes)

Coordinator: Eric Kossoff, M.D.

Speakers: Adam Hartman, M.D., Jong M. Rho, M.D., J. Helen Cross, M.D., Ph.D.,

Jeffrey Buchhalter, M.D., Ph.D., Zahava Turner, RD, Robyn Blackford, RD

We will have a different agenda this year: 3 distinct 30-minute-long, moderated debates regarding topics of basic science (is the diet antiepileptogenic?), clinical science (do we really need randomized, controlled trials?), and lastly dietary attributes (should we just be using the modified Atkins and low glycemic index diets?). There will be brief pro and con arguments followed by audience discussion and rebuttals.

Military Epileptologists

Coordinator: Jose E. Cavazos, M.D., Ph.D.

Speakers: TBD

The challenges of epileptologists working at the VA system and other military healthcare facilities are different than those for civilian epileptologists to provide excellent clinical care for patients with epilepsy. Our challenges include: 1) Inadequate funding and coordination among military/VA epilepsy centers, 2) Inadequate epilepsy personnel compensation (recruitment and retainment), 3) imbalances due to diverse national and regional AED formularies, 4) inadequate neurodiagnostic facilities (i.e., EMU), 5) inadequate epilepsy surgery availability, 6) inadequate epilepsy/seizures/spell education to referring primary providers, 7) inadequate neuropsychiatric care for epileptic and non-epileptic seizures, 8) inadequate research funding, and 9) need to unify for effective legislative affairs. With the surge of recent head injuries from the Iraqi freedom war, the military system might not be ready to take on another 10,000 TBI-associated patients with epilepsy. Furthermore, Vietnam veterans are rapidly reaching the age when new-onset geriatric seizures develop, posing another challenge. The SIG would provide an open forum to organize and discuss strategies to improve epilepsy care to our veterans.

Neurostimulation – Clinical Neurophysiology of Neurostimulation

Coordinators: James W. Wheless, M.D., Douglas R. Labar, M.D., Ph.D.

Speakers: TBD

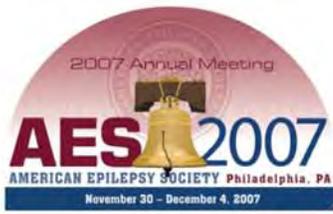
Our SIG will focus on the interrelationship between clinical neurophysiology (primarily EEG) and neurostimulation. We will discuss which patients may be candidates for intermittent scalp EEG monitoring to help fine-tune their neurostimulation therapy, and what changes are seen on EEG during neurostimulation.

Nonepileptic Seizures – NES Diagnosis

Coordinators: Selim R. Benbadis, M.D., W. Curt LaFrance, Jr., M.D.

Speakers: W. Curt LaFrance, Jr., Selim R. Benbadis, M.D.

Video EEG is the gold standard for diagnosis of nonepileptic seizures. The diagnosis is established by viewing the ictal semiology which is co-registered with a tracing that reveals no evidence of epileptiform activity. A study on the inter-rater reliability (IRR) on video EEGs among epileptologists was conducted. Adjuncts to diagnosis will be discussed, along with the results of the IRR study. A Q&A session for attendees will follow the presentation.



American Epilepsy Society

2007 Annual Meeting Hotel Reservation Form

Philadelphia, Pennsylvania
November 30 - December 4, 2007

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Room Tax rate is 14%.

Individual Deadline is - Thursday, Nov. 1, 2007. Reservations are honored on a first come, first served basis.

Group Deadline is - Friday, Oct. 5, 2007 for providing individual attendees names. Any unassigned rooms will be cancelled.

Requests for 10 or more rooms will be approved by the AES Executive Office. Proof of meeting or exhibitor registration is required.

Hospitality Suites are subject to availability. Please call (800) 926-3976 for layouts and rates. Hospitality activities must not conflict with official AES meeting activities.

Reservation Acknowledgments will be sent to the contact person via email, fax or mail. Do not call the hotels directly.

Reservation Changes should be made through **VIP Meetings & Conventions** at (800) 926-3976.

Cancellation Policy is 14 days prior to arrival to avoid 1 night's room & tax penalty.

Room Types

S ~ 1 person, 1 bed
D ~ 2 people, 1 king
D/D ~ 2 people, 2 beds

Contact Name		Company	
Street Address (for Confirmations)			
City	State	Zip Code	
Country	Email Address		
Phone	Fax	Other	

The Marriott & Courtyard are non-smoking hotels.

Non-Smoking Smoking ADA Accessible

Guest Name (s)	Share With	Special Requests	Rm Type	Arrive	Depart

First Night Room & Tax required for guarantee by either credit card or check payable to hotel in US funds.

Master Card Visa AMEX Discover Diners

Card#	Exp. Date	Cardholder	(print name)
Check Enclosed for \$	Signature		

(payment in U.S. funds only)

Thank you for your reservation!

Registration Instructions

Online Registration: Enjoy the convenience and efficiency of registering on the secure AES Web site.

Mailed Registration: Print a copy of the registration form and mail to the AES office. Completed forms and payment must be received by Thursday, November 1, 2007 to be considered pre-registered. Please make a copy of your completed form (for your records) prior to mailing.

Faxed Registration: 860.308.0029; use M/C, Visa or Amex only. AES is not responsible for faxes not received due to mechanical failure or circumstances beyond our control.

Registration Deadlines

Register early to avoid increased fees! The deadline to receive a discount is Friday, October 19, 2007. Full payment, registration, change or replacement must be received in the AES office by Thursday, November 1, 2007 to be considered pre-registered. After this date, registrations will be processed with additional fees at the Registration Desk on-site. On-site registration opens Friday, November 30 in the Pennsylvania Convention Center in the Bridge Area.

Personal Information

Complete your personal information at the beginning of the registration form.

Special Needs

AES fully complies with the legal requirements of the ADA and the rules and regulations thereof. Please check the box provided and describe the needs that require special accommodation (hearing, mobility, etc.) to attend the Annual Meeting.

Note: Special needs and meals, where applicable, must be advised on your registration no later than Thursday, November 1, 2007. There is a \$25 surcharge per meal.

Passport and Entry Visa

Participants are strongly advised to make sure they fulfill all legal requirements to enter the USA. Besides a valid passport, an entry visa may also be required. We recommend applying at least 4 months in advance. Official letters of invitation for entry visas will be supplied upon request. Please check the appropriate box on the registration form. You must allow sufficient time for this procedure. These letters do not commit AES to any kind of financial support, hosting arrangement, nor does it guarantee an entry visa will be issued. Please refer to the Web site for details (see Travel Information).

A. Meeting Fees

Registration fees are mandatory for attendance at any Annual Meeting function. There are three options for registration: Five-Day (Full) Registration, One-Day, or Two-Day. Choose only one of these options. Additional fees apply for on-site registrations.

The Five-Day registration fee includes the full program of events in Sections F-J. Also included in the full program are the poster sessions, commercial and scientific exhibits.

The One-Day or Two-Day fee options include all events on the day(s) you pay to attend. See sections F-J for program selections.

Pre-Registration Policy

Determine your fee in Section A of the registration form based on your membership status* and the registration category. (Mail-in Forms: Include the total on the line provided in the column at the bottom of the section.)

*Residents, students, and fellows must provide proof of status.

Member Fees

To qualify for the member rate, you must pay the current year's dues.

Non-Member Fees

You may join AES to qualify for the member rates. A new membership application must be signed by an AES active member or the director of your training program if you are a resident, student, or fellow. The completed application, registration form and full payment must be received in the AES office by Thursday, November 1, 2007, to qualify for the pre-registration rates.

Developing Countries Rate

AES encourages participation from colleagues residing in the developing countries of the world. Discounted rates, determined by the World Bank, are available when you register for the full five-day program. Fees will be calculated automatically based on each country.

B. Day Selection – For One- or Two-Day Registrations Only

Register for only one or two days of programming at discounted rates by selecting that option in Section A and your day(s) selection in Section B. Next, choose the session(s) you plan to attend for the applicable day(s) in Sections F-J of the registration form.

C. William G. Lennox Trust Fund Reception

Sunday, December 2, 2007 • 6:00 p.m. – 7:30 p.m.

Share the dream to cure epilepsy! Come mingle with your colleagues and show your support at the annual reception. A voluntary, tax deductible contribution of \$50, or whatever you can contribute, will benefit the Lennox Trust Research Fund. To assist in planning, advanced registration is required. Make plans to have dinner with your colleagues after the event. Check the applicable box in Section C on the registration form.

D. Member Demographics: For AES Members Only

Members are to complete the membership information (Section D).

E. Professional Demographics

All registrants are to complete the demographic information (Section E).

F. Program Selections

Check desired selections in the area provided on the registration form, (Sections F-J). Descriptions for the sessions are listed in this document.

Additional Registration Information

Photo ID Required and Badge

Prior to receiving a badge and registration materials, the meeting attendee must produce government-issued photo identification. All registration fees must be paid in full. The official AES badge must be worn at all times while on-site at the meeting locations. Badges are non-transferable.

1-Day Guest Pass (Exhibit Hall/Poster Session)

Guests of any registrant wishing to view exhibits or posters are required to purchase a **single day** guest pass on-site at the Registration Desk for \$75 each. Poster presenters cannot use a guest pass. They must register for the meeting (Section A). Everyone entering the Exhibit Hall or Poster Sessions is required to have an official meeting badge!

Name Replacements

A \$50 fee will apply to any name replacement for the AES Annual Meeting registrations.

Lost Badge Fee

A \$25 fee will apply to reprint a missing or lost badge.

Registration Acknowledgments

Registrations received on or before Thursday, November 1, 2007 will be acknowledged electronically.

Registration Cancellations

Refund requests due to cancellation must be received in writing or by e-mail before Thursday, November 29, 2007. A \$50 administration fee will be applied. No refunds will be issued after this date.

Group Registrations

Group registrations are 10 or more registrations paid for by the same check or credit card. Each group member must have an individual registration form. Please contact the AES office for registration instructions at 860.586.7505 or e-mail at groupreg@aesnet.org.

Closed Programs

Educational programs may be closed due to capacity.

Meeting Attendee's Name:

You must complete Section A, Meeting Fees, to attend any session on this page. Check the programs below for which you plan to attend; only one per session.

F. Friday, November 30, 2007

1. **1:00 p.m. - 2:30 p.m. – Special Interest Group Meetings**
 - a. Basic Mechanisms of Epilepsy
 - b. Clinical Roundtable
 - c. Epidemiology
 - d. Neuroimaging
 - e. Pregnancy Registry Outcomes
 - f. Sleep and Epilepsy
 - g. Translational Research
 - h. Tuberous Sclerosis Complex
2. **3:30 p.m. - 5:00 p.m. – Hoyer Lecture**
 5th Judith Hoyer Lecture in Epilepsy
3. **6:00 p.m. - 8:30 p.m. – Evening Symposia**
 - a. AET Symposium – Generic Antiepileptic Drug Substitution
 - b. Hot Topics Symposium – Epilepsy and the Immune System

G. Saturday, December 1, 2007

1. **9:00 a.m. - 12:15 p.m. – Merritt-Putnam Symposium**
 Post-Traumatic Epilepsy – Treatable Epileptogenesis?
2. **2:30 p.m. - 4:00 p.m. – Special Interest Group Meetings**
 - a. Children's Hour
 - b. Controversies in Epilepsy
 - c. Engineering and Epilepsy
 - d. Genetics
 - e. Junior Investigators' Workshop
 - f. MEG/MSI
 - g. Neuropharmacology
 - h. Neuropsychology
 - i. Nursing Research
 - j. Women's Issues with Epilepsy
3. **5:00 p.m. - 7:30 p.m. – Evening Symposia**
 - a. Annual Fundamentals of Epilepsy – Pharmacology 101
 - b. Spanish Symposium – Surgical Evaluation
4. **5:00 p.m. - 8:00 p.m. – Professionals in Epilepsy Care Symposium #1**
 Basic Principles of the Treatment of Frequent Psychiatric Comorbidities in Epilepsy
5. **6:00 p.m. - 7:30 p.m. – Investigators' Workshop**
 Broad-Band Intracranial EEG in Patients with Epilepsy:
A Window to Human Networks

H. Sunday, December 2, 2007

1. **8:00 a.m. - 4:00 p.m. – Annual Course**
 Decision Points in Epilepsy: Bedside to Bench
2. **8:00 a.m. - 5:00 p.m. – Investigators' Workshop**
 - a. Main Session
11:30 a.m. - 1:30 p.m. – Investigators' Workshop
 - b. Poster Session for Basic Scientists
3. **4:00 p.m. - 6:00 p.m. – Professionals in Epilepsy Care Symposium #2**
 Unique Perspectives of Adolescents

I. Monday, December 3, 2007

1. **9:00 a.m. - 11:30 a.m. – Presidential Symposium**
 Found in Translation – New Targets for Therapies
2. **2:15 p.m. - 3:00 p.m. – Lennox Lecture**
 Title to come
3. **3:00 p.m. - 4:30 p.m. – Investigators' Workshop**
 Sick Axonal Terminals and Epileptogenesis
4. **4:30 p.m. - 6:00 p.m. – Investigators' Workshop**
 Mitochondrial (dys)function and Epilepsy
5. **4:30 p.m. - 6:00 p.m.**
 Pediatric Epilepsy Highlights Session
6. **4:30 p.m. - 6:00 p.m.**
 Platform Highlights – Two Concurrent Sessions
7. **7:00 p.m. - 9:00 p.m. – Evening Symposium**
 Pediatric State of the Art Symposium:
Strategic Approaches to Pediatric Epilepsy Surgery
8. **7:00 p.m. - 9:30 p.m. – Evening Symposium**
 Symposium: What Is a Seizure?

J. Tuesday, December 4, 2007

1. **9:00 a.m. - 10:30 a.m. – Plenary II**
 Temporal Lobe Epilepsy: Discrete Focus or Spectrum Disorder?
2. **11:00 a.m. - 12:30 p.m. – Plenary III**
 Subcortical Control of Cortical Excitability
3. **12:45 p.m. - 2:15 p.m.**
 Practice Management Course – Update for 2008
4. **12:45 p.m. - 2:15 p.m. – Special Interest Group Meetings**
 - a. Basic Neuroscience
 - b. Clinical Pharmacology
 - c. EEG
 - d. How to Obtain NIH Funding
 - e. Neuroendocrinology
 - f. Nursing Focus Group
 - g. Patient Reported Outcomes
 - h. Pediatric Roundtable
 - i. Psychiatry in Epilepsy
 - j. SUDEP
 - k. Temporal Lobe Club
5. **2:30 p.m. - 4:00 p.m. – Special Interest Group Meetings**
 - a. Epilepsy Surgery
 - b. Frontal Lobe Epilepsy
 - c. Herbs and Botanicals
 - d. Ketogenic Diet
 - e. Military Epileptologists
 - f. Neurostimulation
 - g. Nonepileptic Seizures

Registration Instructions

Three Easy Ways to Register:



Register on our secure
Web site

or



Fax your completed form to:
860.308.0029
Use M/C, Visa or AMEX only

or



Mail your completed form
and payment to:

AES – 2007 Annual Meeting
342 North Main Street
West Hartford, CT 06117-2507