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A Message From the President



As the flagship event for our Society, our Annual Meeting is the largest epilepsy-related conference in the nation. The Meeting offers professionals from all over the world the opportunity to learn about the latest information in the clinical and basic sciences, stay current with the most recent trends in clinical practice and, of course, spend time with our friends and colleagues who share a common purpose of improving the lives of people with epilepsy.

The 2004 Annual Meeting will be held in New Orleans, Louisiana. It's been 10 years since AES has been to The Big Easy and after "The Blizzard of '03" in Boston last

December, I am sure we are all looking forward to the balmy Louisiana winter.

Our Board, committee chairs, volunteers and staff put so much into the development of our meeting and it shows with the positive feedback we receive from meeting attendees. Although our meeting continues to receive high marks, our volunteers and staff are always looking for enhancements to make to our Annual Meeting and enrich the experience for all the attendees.

Registration Rates:

This year, our Annual meeting will feature new Scientific Program registration rates, which include attendance to either the Annual Course or the Investigators' Workshop. The majority of attendees who attended the Scientific Program had also opted to attend one of the above programs, which prompted us to redesign the registration rates.

With the growing participation of the Allied Health disciplines, a specific rate has been developed for nurses and non-physician medical technology professionals.

In addition, for those who are unable to attend the entire Annual Meeting, a daily rate has been established, which allows for cost-effective attendance for one or two days of programming.

CME Credit Submission:

Session evaluations are critical for CME needs-assessment compliance and ongoing enhancements to Annual Meeting programming. We are pleased to report the launch of a new online CME credit system, which streamlines the evaluation process for attendees. With this online service, attendees will be able to access their registration record and document their session attendance during the Annual Meeting and print out their own CME certificates following the conclusion of programming.

These new enhancements are a response to your feedback and suggestions, and we look forward to their positive impact on our meeting.

In closing, I would like to thank Jim Willmore, M.D. for his overall coordination of the entire Annual Meeting. I would also like to express a special, heartfelt thanks to our Scientific Program Committee chair, Elaine Wyllie, M.D.

The meeting is now less than five months away, and we have had over 1,100 abstract submissions, our Exhibit Hall is filling up quickly and our speakers are all lined up and ready for December! With so many exciting things going on at our Annual Meeting, and the warm weather and entertainment value of being in New Orleans, this looks to be the best meeting ever. I'm looking forward to seeing you soon down near the Bayou!

A handwritten signature in black ink that reads "Daniel H. Lowenstein". The signature is written in a cursive, flowing style.

Daniel H. Lowenstein, M.D.

Meeting-at-a-Glance

7:00 a.m.

8:00 a.m.

9:00 a.m.

10:00 a.m.

11:00 a.m.

12:00 p.m.

1:00 p.m.

2:00 p.m.

FRIDAY
December 3

Advances in the Management of Epilepsy and the Epilepsy Clinic (Sheraton)

SATURDAY
December 4

Registration

Merritt-Putnam Symposium — *The Developing Epileptic Brain*

■ Victor Horsley Fellowship Award
■ Merritt-Putnam Clinical Research Fellowship Award

Pfizer Sponsored
Boxed Lunch

Special Interest Group Meetings

Anti-epilepsy
Therapy

SUNDAY
December 5

Registration

Continental Breakfast

Annual Course — *Genetics and Epilepsy Syndromes*

Investigators' Workshop

Boxed Lunches

Poster Session for Basic Scientists

Special Interest
Group Meetings

MONDAY
December 6

Registration

Exhibits Open

Special Interest
Group Meetings

Poster Session I

Author Group A: 8:00 a.m.-9:00 a.m.
Author Group B: 2:30 p.m.-3:30 p.m.

Continental Breakfast

Presidential Symposium — *Epilepsy and Computational Neuroscience: At the Threshold of a Whole New Era*

■ J. Kiffin Perry
Award

Epilepsy Research Awards Luncheon
(Sheraton)

Light Lunch (Exhibit Hall, for those
not attending Awards Luncheon)

TUESDAY
December 7

Registration

Concurrent
Plenary
Sessions

■ Plenary II — *Treatment of Epilepsy: Improving Outcomes with Innovative Surgical Techniques*
■ Plenary III — *Astrocytes and Epileptogenesis*

Practice Management Course —
Update for 2005

Poster Session II

Author Group A: 8:00 a.m.-9:00 a.m.
Author Group B: 2:30 p.m.-3:30 p.m.

Exhibits Open

Continental Breakfast

Lennox Lecture

Special Interest
Group Meetings

Break

AES Business
Meeting

Registration

Scientific Program Activities

Investigators' Workshop

Annual Course

Special Interest Groups

General Information

Changes to This Year's Annual Meeting

Several changes have been made to this year's annual meeting schedule. First, Special Interest Group (SIG) meetings and Participatory Roundtables will be held on Saturday and Sunday during the lunch hour and boxed lunches will be available. SIG meetings will also be held on Monday morning and afternoon and Tuesday at noon. Monday evening will feature two educational symposia. The meeting will conclude at 5:00 p.m. on Tuesday, December 7. Additionally, you will be able to complete the course evaluations online and print your CME certificate. Courses will also be re-purposed on the AES Web site after the Annual Meeting. We hope that you find this new, streamlined schedule conducive to a satisfying and challenging annual meeting. We welcome your comments.

Educational Design of the Meeting

The AES meeting consists of lectures, courses, poster and platform presentations, satellite 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.

Target Audience

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

Policy on Commercial Support and Faculty Disclosure

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, independent, and scientifically rigorous. To this end, all speakers are required to complete a "Faculty Disclosure Form," which will be made available through syllabus materials and/or announcements by moderators.

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 2004 AES Annual Meeting will be published in the October *Epilepsia* supplement. Papers 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 38.0 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Each educational symposium has been granted CME credit. Check individual programs for assigned credits and learning objectives.

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.



Selected AES programs are approved for continuing education units (CEU's). Pharmacists will be required to complete evaluations for each program attended and statements of participation for continuing pharmaceutical education participation will be mailed to pharmacists within one month of the program. 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.

Opening Reception

Plan now to attend the opening reception in this year's AES Exhibit Hall on Sunday, December 5 from 5:00 p.m.-6:30 p.m. Network with your colleagues and meet with representatives from the many exhibiting companies. The reception is open to full program or Sunday registrants only.

Commercial Exhibits

The Exhibit Hall will open with a reception on Sunday evening, December 5. The Hall will also be open on Monday, December 6 and Tuesday, December 7 from 8:00 a.m. to 4:00 p.m. 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 field of epilepsy. Learn about new products and services for the care and treatment of persons with epilepsy.

Please check the AES Web site for a list of exhibitors.

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 from Sunday, December 5 through Tuesday, December 7.

General Information

Special Event— Save Sunday Evening for Mardi Gras

New Orleans without Mardi Gras? Hardly! Since Mardi Gras is always scheduled in the Spring, AES has made special arrangements for a mini-celebration for members and guests at this year's Annual Meeting. The site of this fun-filled party will be Mardi Gras World, the sculpture company that produces some of the most elaborate floats for the annual Mardi Gras parade. New Orleans is also known for its delicious cuisine, particularly specialties such as catfish, muffalettas and jambalaya. Enjoy these and more at a buffet supper in a dramatically lit space surrounded with huge paper mache figures while listening to a great jazz band. Bus transportation will be provided from the Sheraton, Hilton and the Convention Center.

To ensure that you are at Mardi Gras in December, please request tickets when submitting the 2004 Annual Meeting Registration Form. Tickets will not be sold at the door.

Proceeds of the evening will support the American Epilepsy Society Research Programs.

Cyber Café

Two Cyber Cafés will be set up at this year's meeting. One, in the registration area at the Convention Center, will be open Friday through Tuesday during registration hours. The other, located on the Exhibit Hall floor, will be open Monday and Tuesday 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. You will also be able to complete the course evaluations and obtain your CME certificate online.

Advance Registration

Registration information is included in this brochure. You may also register online through the AES Web site at www.aesnet.org. Reduced fee registration deadline is **October 22, 2004**. Deadline for advance registration is **November 8, 2004**. Early registration is encouraged. After November 8, advance registration will no longer be accepted and you will be required to register on-site.

About New Orleans

New Orleans, the Crescent City, is overflowing with a rich history, a diversity of cultures, unique architecture, great food and live music. The city is the birthplace of jazz and is known for its tradition of having a good time. The French Quarter, the oldest part of the city, is a national historic landmark. New Orleans has many museums with exhibits highlighting history, art and music. The aquarium and zoo are among the top five in the country. Numerous art galleries are located in the city's Warehouse/Arts district. Shopping opportunities, restaurants, and jazz clubs are plentiful throughout the city. The weather in early December typically finds daytime temperatures of 60° to 65° F (15° to 18° C). For additional information, access the New Orleans Metropolitan Convention and Visitor's Bureau Web site through the AES Web site at www.aesnet.org.

New Orleans is located in the Central time zone.

For international dialing, the country code to the United States is +1. The local area code for New Orleans is 504.

Meeting Location

Most of the AES meeting activities will be held at the Ernest N. Morial Convention Center. Located downtown along the banks of the Mississippi River, the Center offers a modern, spacious facility for the meeting.

Hotel and Travel Arrangements

AES encourages you to use the discount programs that have been arranged for you. In addition to supporting AES and receiving discounted rates, your participation assists AES in obtaining better hotel and airline rates for future meetings. Complimentary shuttle transportation will be provided to the Morial Convention Center from the official Annual Meeting hotels only.

Hotel Information

Three hotels in New Orleans have rooms blocked for AES meeting attendees at special rates.

All reservations must be made through the official AES Meeting Housing Bureau, VIP Meetings and Conventions, at 800.926.3976. For your convenience, a housing reservation form is included in this brochure. Complete hotel reservation information is outlined on this form. You may also make your hotel reservations online through the AES Web site at www.aesnet.org. Go to the Annual Meeting section and click on the hotel reservations link. The deadline for individual hotel reservations is November 8, 2004. *You are encouraged to make your reservations early, as rooms may sell out prior to this date. Room availability cannot be guaranteed after November 8.* The deadline for blocks of 10 or more rooms is October 6, 2004. A portion of the room rate at each hotel will be used to offset meeting expenses.

AES Annual Meeting Hotels

HEADQUARTERS HOTEL

Sheraton New Orleans Hotel

500 Canal Street, New Orleans, LA 70130

Telephone: 504.525.2500

Fax: 504.561.0178

Rates: \$179 Single/Double

\$209 Single/Double – Club Level

This hotel is located in the heart of the central business district on historic Canal Street, ten blocks from the Convention Center and 16 miles from the airport. The guest rooms have been recently refurbished. All rooms feature Sheraton Sweet Sleeper Beds, work desk with data port, dual line telephone with voice mail, cable TV, in-room safe, coffee maker, hair dryer and iron & ironing board. Starwood Turbo Net High Speed Internet Access is available by request for \$9.95, 24 hours a day in most guest rooms. Club Level rooms feature additional amenities, access to the Club Lounge with complimentary continental breakfast and evening hors d'oeuvres and beverage service, and complimentary use of the Fitness Center.

General Information

The hotel features three dining outlets, Rou Bistro Restaurant, the Pelican Bar, and a Starbucks Coffee Stop. The hotel also offers 24-hour room service. Other features include a fully-equipped fitness center, heated outdoor pool, hot tub, sundeck, sauna, steam room, massage therapy services, a full service business center, gift shop and concierge service. Valet Parking is \$27.94 inclusive per day. Refrigerators are available for \$25 per stay.

W New Orleans

333 Poydras Street, New Orleans, LA 70130

Telephone: 504.525.9444

Fax: 504.586.9928

Rates: \$199 Single/\$229 Double – 1 king bed

\$239 Single/Double – 2 double beds

This hotel is located one block from the Mississippi River and 5 blocks from the Convention Center. Guest rooms feature W's signature down feather bed. The rooms also feature custom AVEDA bath products, oversized work desk with high speed data port, two telephones (one cordless with two lines, the other with data port and speaker), 27" cable TV with Web TV and cordless keyboard, videocassette player, CD player with radio, and mini-bar. A video and CD library is available. Starwood Turbo Net High Speed Internet Access is available in all guest rooms for \$14.95, 24 hours a day.

For dining, the hotel features the AAA four-diamond-rated Zoe Bistro and Bar, the Whiskey Blue cocktail lounge and The W Café coffee bar. The hotel offers 24-hour room service, a 24-hour fitness center with state-of-the-art equipment, spa, an outdoor rooftop swimming pool, 24-hour concierge service and laundry/valet service. Valet parking is \$28 per day.

Hilton New Orleans Riverside

2 Poydras Street, New Orleans, LA 70140

Telephone: 504.561.0500

Fax: 504.568.1721

Rates: \$239 Single/\$259 Double – Classic Rooms

\$289 Single/\$309 Double – Executive Rooms

This hotel is situated on the banks of the Mississippi River, adjacent to the Riverwalk Mall and one block from the Convention Center. Classic rooms feature views of the hotel's courtyards, a work desk, two telephones with two lines, voice messaging, data port and speakerphone, remote control cable TV with pay movies, Internet browsing and video games, iron and ironing board, coffee maker and hair dryer. Executive floor rooms are newly renovated and feature Suite Dream Bedding by Hilton, in-room fax machines, turn-down service, robes, complimentary health club privileges and access to the Executive Lounge. The Executive Lounge offers private check-in and check-out, concierge service, complimentary continental breakfast, and evening hors d'oeuvres and beverage service.

Dining options include: CC's Coffee House, Le Croissant, Kabby's On The River, Kabby's Sports Edition Grille and the French Garden Bar. The hotel also offers room service, two outdoor heated pools, a full service business center, laundry/valet service and two gift shops. A full-service fitness center offers massages, whirlpool, sauna and six outdoor tennis courts. Self-parking is \$22 and valet parking is \$27. Refrigerators are available for \$25 per stay.

Getting to New Orleans

International Travel Information

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

travel.state.gov/vwp

dhs.gov/us-visit

Air Travel

Louis Armstrong New Orleans International Airport is located west of the city and is approximately 16 to 18 miles from the Central Business District area of New Orleans. It is served by 19 airlines and offers service to 41 non-stop destinations, with connecting service to cities throughout North America and overseas.

Official Carrier

The American Epilepsy Society is pleased to announce that it has been able to secure a special discount agreement with United Airlines unavailable to the general public.

Several pricing options are available for purchase based upon your dates of travel. You may choose a 5% discount off the lowest applicable fare by calling United's toll-free number 800.521.4041 and refer to the Meeting ID Number **560QN**. A 10% discount is available off the unrestricted coach fares when purchased seven days in advance. *An additional 5% discount will apply when you purchase your tickets at least 30 days in advance of your travel date.* Or you may choose area pricing, set airfare prices based upon geographical locations. **Discounts apply on United, United Express, Ted, United code share flights (UA*) operated by US Airways, US Airways Express, and Air Canada scheduled service.** Dedicated reservationists are on duty seven days a week, 8:00 a.m. to 10:00 p.m., EST. Book early to take advantage of promotional fares that give you the greatest discount. Mileage Plus members receive full credit for all miles flown to this meeting.

Additionally, for international attendees of the Meeting, United will provide round-trip transportation to New Orleans on United, Lufthansa or United Express scheduled service in the United States, Canada and Puerto Rico to and from destinations in Europe with (1) a 10% discount off any United, Lufthansa or United Express published fare, excluding first class, in effect when the tickets are purchased subject to all applicable restrictions, or (2) a 15% discount off full coach booked in Y class of service. An additional 5% discount is applicable when tickets are issued 60 days prior to travel within the contracted travel period. Contact a United or Lufthansa representative in your country.

Transportation from the Airport

Shared-ride shuttle services, taxis and rental cars are plentiful at Louis Armstrong New Orleans International Airport. Cab fare is \$28.00 for one or two passengers to the downtown area from the airport.

General Information

Shuttle Service

Airport Shuttle New Orleans provides shuttle service to each of the three AES Annual Meeting hotels from the airport. For additional information, click the airport transportation link on the AES Web site at www.aesnet.org or call toll-free 888.432.7651 or local number 504.522.3500. For airport transportation discount coupons and tour discounts, click on the discount link on the AES Web site, www.aesnet.org.

Car Rental

The official rental car supplier for the AES Annual Meeting is Avis Rent a Car Systems. Avis is offering discounted rates that are available one week prior to, during, and one week after the meeting to AES meeting attendees. Special rates are available by calling 800.331.1600. **Refer to the Avis Worldwide Discount (AWD) #J094229** when making your reservation, to receive this rate. Reservations may also be made online by clicking the rental car link on the AES Web site, www.aesnet.org.

Rail Transportation

Amtrak's station is located at 1001 Loyola Avenue in New Orleans. Amtrak links the city with other destinations throughout the United States including Atlanta, Chicago, Los Angeles, Orlando and New York. For additional information, call Amtrak at 800.U.S.A.RAIL.

Automobile Transportation

Interstate 10 and U.S. Route 90 provide access to the downtown New Orleans area.

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 will be required for admittance to AES 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.

Additional Information

American Epilepsy Society

342 North Main Street, West Hartford, CT 06117-2507

Phone: 860.586.7505

Meeting Fax: 860.308.0029

Email: info@aesnet.org • Web site: www.aesnet.org

Fax-on-Demand: 860.586.7575

Conference Brochure: #30200

Conference Registration Form: #30201

Conference Housing Reservation Form: #30202



Friday, December 3

Other Programs

The National EpiFellows Foundation 12th Annual Forum

The National EpiFellows Foundation (NEF) will hold its annual forum on Friday, December 3, 2004, in conjunction with the American Epilepsy Society's Annual Meeting, at the Windsor Court Hotel New Orleans in New Orleans, Louisiana.

Registration forms were sent to directors of accredited Epilepsy Fellowship Programs in June. Program directors will nominate fellows to attend, and participation is confirmed on a first-come, first-served basis. The deadline for registration is September 30, 2004. For more information please visit our Web site at www.epifellows.com or call 800.288.2074. The NEF is supported by an educational grant from Pfizer Inc.

Advances in the Management of Epilepsy and the Epilepsy Clinic

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

(Sheraton — 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 educational 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, Bowman Gray School of Medicine, Winston-Salem, NC 27103, or call 800.642.0500. Registration fee is \$60. Lunch is included.

New

2nd Judith Hoyer Lecture in Epilepsy

Epilepsy After the “Decade of the Brain”: Misunderstandings, Challenges, and Opportunities

Reception: 5:00 p.m.-5:30 p.m. • Program: 5:30 p.m.-6:30 p.m.
(Sheraton — registration not required.)

2nd Judith Hoyer Lecture in Epilepsy presented by invited lecturer Thomas P. Sutula, M.D., Ph.D. is sponsored by the National Institute of Neurological Disorders and Stroke. Title of the lecture is *Epilepsy After the “Decade of the Brain”: Misunderstandings, Challenges, and Opportunities*.

The **Judith Hoyer Lecture in Epilepsy** is the second in a series of lectures highlighting the promise of epilepsy research. It is held in memory of Mrs. Judith Hoyer, an active member of the Board of Directors of the Epilepsy Foundation (EF) and the late wife of Rep. Steny Hoyer (D-MD). Mrs. Hoyer spent her life both helping families to cope with epilepsy and promoting research into a cure and a better quality of life for those with the disorder. The purpose of the lecture is to raise awareness of epilepsy among researchers and the public and provide intellectual stimulation that will encourage continuing progress toward finding a cure for epilepsy.

The years 1990-2000 were declared by Congress as the “Decade of the Brain” and were a period of increased appropriations for research in neuroscience and brain diseases, including epilepsy. The impact of this national emphasis and commitment is just now being appreciated, yet in many respects epilepsy remains a misunderstood and challenging condition. This public lecture will explore some of the reasons epilepsy is still often misunderstood by the public and is a challenging problem for healthcare professionals and scientists. Despite these continuing challenges, the “Decade of the Brain” has been followed by significant advances in genomics, proteomics, systems biology and biotechnology that are providing major opportunities for development of novel therapies for the epilepsies.

Epilepsy in the Elderly (Presented in Spanish)

Program: 4:00 p.m.-6:30 p.m.
(Sheraton)

Overview

The incidence of epilepsy is bimodal: high in infants and children, lower in middle age, and accelerating with age over 60. This symposium will address symptoms of epileptic seizures in patients over age 60, etiologies and comorbidities of epilepsy in this population, and special considerations regarding the selection of anti-epileptic drugs. Clinicians should understand age-related factors that affect epilepsy diagnosis and management. These include particular presentations and etiologies, changes in drug pharmacokinetics, coexisting diseases, polypharmacy and interactions of AEDs with other drugs. There will be ample opportunity for attendant participation and discussion of special consideration regarding issues that may be particular to different Spanish-speaking countries.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Recognize the particular semiology of seizures in elderly persons
- Assess the causes and comorbidities of epilepsy in the elderly
- Formulate a rational approach to the selection of AEDs in elderly patients with epilepsy.

Target Audience

Neurologists and other healthcare professionals involved in epilepsy care in the elderly population. The program will be presented in Spanish, thus facilitating comprehension and enhancing participation of meeting attendees from Spanish speaking countries.

Program

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

- Seizure Semiology in the Elderly
Hans O. Lüders, M.D., Ph.D.
- Etiology and Comorbidity of Epilepsy in the Elderly
Joseph I. Sirven, M.D.
- AED Pharmacokinetics and Selection in the Elderly: Lessons from the VA Cooperative Study
Blanca Vazquez, M.D.
- Roundtable Discussion: Cultural Factors and Access to Care
Vicente J. Iragui, M.D., Ph.D.

Accreditation

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

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 2.5 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Allied Health Symposium

Reception: 6:00 p.m.-7:00 p.m. • Program: 7:00 p.m.-9:30 p.m.
(Sheraton)

Sex, Drugs and Epilepsy

Overview

Medication therapy is the cornerstone of epilepsy care, and while of substantial benefit to many people, anti-epileptic medications are also associated with adverse effects. Managing medications, particularly deciding when to begin therapy and whether to change or stop medications can be a difficult decision for both patients and families. The relative values placed on the risks of seizures versus adverse effects of medications differ among healthcare professionals, patients, and their families. This symposium will explore the effects of medications on sexuality. The nature and scope of this problem, potential mechanisms involved, assessment and management techniques, and communication between patient and healthcare provider will be discussed.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Describe types of sexual dysfunction seen as side effects of anti-epileptic medications
- Analyze choices in anti-epileptic treatment from the patient's perspective
- Apply concepts of patient self-management in the clinical setting
- Formulate a plan for effective communication with patients that promotes self-management.

Target Audience

Physicians, social workers, pharmacists, and nurses.

Program

Co-Chairs: Christine O'Dell, RN, M.S.N., and Barry E. Gidal, Pharm.D.

- AEDs and Sexual Dysfunction: Potential Mechanisms
Barry E. Gidal, Pharm.D.
- Assessment and Management of Sexual Dysfunction in Epilepsy
Mimi Callanan RN, M.S.N., John J. Barry, M.D.
- Medication Side Effects: Strategies for Communication
Alan B. Ettinger, M.D.

Accreditation

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

This activity will be submitted to the Association of Rehabilitation Nurses (ARN) for 2.8 contact hours. ARN is accredited as an approver of continuing nursing education by the American Nurses' Credentialing Center's Commission on Accreditation.

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 2.5 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Re-purposing

This program will be re-purposed for CE credit on the AES Web site.

Acknowledgment

This program is supported by educational grants from GlaxoSmithKline and UCB Pharma, Inc.

Status Epilepticus: Evidence and Beyond

Reception: 6:00 p.m.-7:00 p.m. • Program: 7:00 p.m.-9:30 p.m.
(Sheraton)

Overview

An evidence-based approach will be used to extend the comprehension of the scientific and clinical underpinnings of status epilepticus (SE) for the practitioner. Findings related to neuronal protection and damage, along with results from clinical trials, establish the basis for developing SE treatment guidelines and will be emphasized. A framework will be presented to interpret SE guidelines and develop appropriate applications in clinical practice for adult and pediatric patients. The presenters will also address some of the complexities of developing SE treatment guidelines and determining how they are related to the duration of a seizure.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Comprehend the evidence-based foundations for neuronal damage and protection
- Apply this knowledge and critically interpret SE clinical trial results
- Synthesize the concepts of neuronal damage/protection and clinical trial results to develop appropriate treatment guidelines for SE in the clinical setting
- Effectively implement treatment guidelines for SE in pediatric and adult patients
- Derive and implement patient education strategies from the treatment guidelines for SE.

Target Audience

All clinical practitioners treating patients with epilepsy.

Program

Chair: Tracy A. Glauser, M.D.

- Basic Science Perspectives on Neuronal Damage and Protection
Jong M. Rho, M.D.
- Applying Evidence From Clinical Trials: Guideline Development
Tracy A. Glauser, M.D.
- Incorporating Acute and Preventive Applications Into Healthcare Professional Practice: The Pediatric World
John M. Pellock, M.D.
- Incorporating Acute and Preventive Applications Into Healthcare Professional Practice: The Adult World
Kevan VanLandingham, M.D., Ph.D.
- Translating Clinical Practice: Family Perspectives
Christine O'Dell, RN, M.S.N.

Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Epilepsy Society and MedLogix Communications, LLC. The AES is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 2.5 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Acknowledgment

This program and its re-purposing on the AES Web site is supported by an educational grant from Xcel Pharmaceuticals, Inc.

Refractory Epilepsy: Epileptogenesis and the Progressive Nature of the Disease

Reception: 6:00 p.m.-7:00 p.m. • Program: 7:00 p.m.-9:30 p.m.
(Sheraton)

Overview

Epileptogenesis is generally understood to be the process by which a seizure focus develops. However, it can also represent the evolution of excitatory processes or worsening of seizures over time. This symposium will discuss whether there is evidence for ongoing epileptogenesis after the onset of a seizure diathesis. In addition, the evidence for the progressive nature of epilepsy, specifically as shown by MRI studies and changes in neuropsychiatric status, will be discussed. Finally, a careful discussion of whether AEDs alter the course of epilepsy will be presented, with an eye toward how that information may affect treatment of patients with refractory epilepsy. The faculty will be composed of speakers known for their experience and knowledge in this area, and chaired by a physician whose credentials include current research related to the topic.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Discuss the leading theories of epileptogenesis in epilepsy
- Identify the structural and neuropsychological changes that may occur in patients with refractory epilepsy
- List which patients, based on epidemiology, are more likely to be at risk
- Apply knowledge of the effects of AEDs on the long-term course of the disease to selection of agents appropriate for patients.

Target Audience

Epileptologists, neurologists, general practitioners, internists, and RNs who treat patients with epilepsy.

Program

Chair: Jacqueline A. French, M.D.

- Epileptogenesis After the Onset of Epilepsy
Douglas A. Coulter, Ph.D.
- Evidence for Progressive Structural and Neuropsychological Abnormalities in Epilepsy
Kimford J. Meador, M.D.
- Clinical Epidemiology of Refractory Epilepsy
W. Allen Hauser, M.D.
- Do AEDs Alter the Course of Epilepsy?
Jacqueline A. French, M.D.

Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Epilepsy Society and The BioContinuum Group. The AES is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 2.5 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Acknowledgment

This program and its re-purposing on the AES Web site with CME credit is supported by an educational grant from UCB Pharma, Inc.

Saturday, December 4 • At-a-Glance

Saturday Special Interest Group Meetings

12:45 p.m.-2:15 p.m.

Clinical Roundtable — Hormones and Epilepsy: Sexuality and Seizures

Controversies In Epilepsy — Epilepsy Surgery: Case Discussions

Junior Investigator Workshop — Times Are Changing: Do You Have What It Takes To Succeed?

Neuropharmacology

Neurostimulation: New Developments

Nursing — Clinical Challenges in the Care of Epilepsy Patients

Psychiatric Issues in Epilepsy

Translational Research: Funding

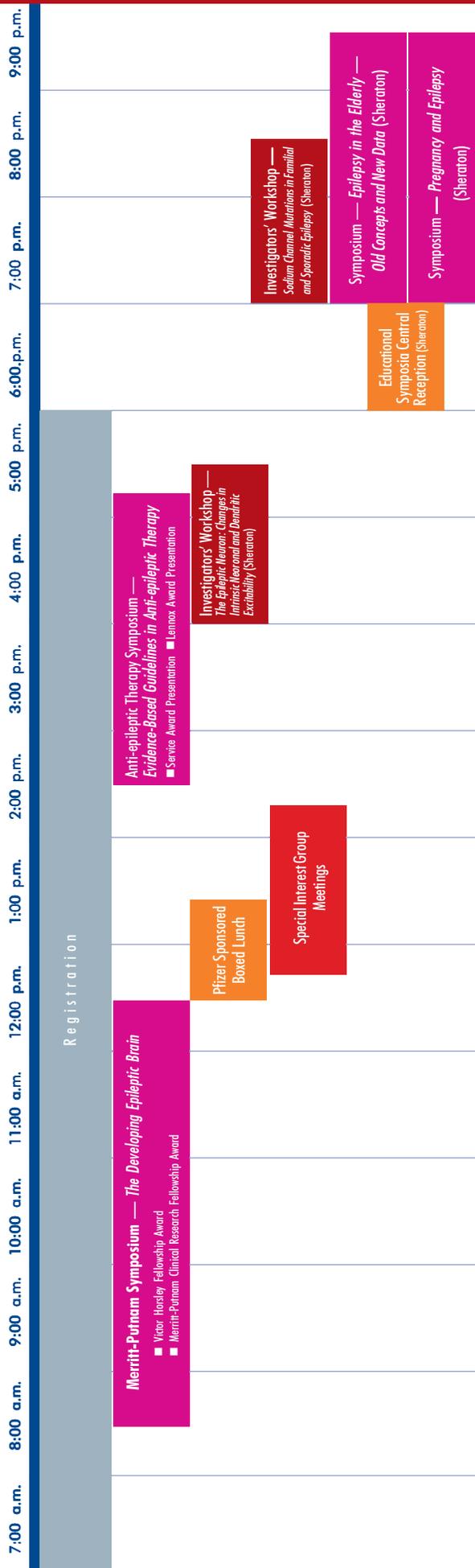
Boxed lunches sponsored by Pfizer Inc.

Service Award Presentation

Established in 1993, this award recognizes outstanding service by an AES member in the field of epilepsy (including non educational and non scientific) and exemplary contributions to the welfare of the American Epilepsy Society and its members.

Lennox Award Presentation

This award, established in 1966, recognizes members of the Society, usually at a senior level, who have a record of lifetime contributions and accomplishments related to epilepsy. The award is funded by the William G. Lennox Trust Fund, established in 1962 to advance and disseminate knowledge concerning epilepsy in all of its aspects — biological, clinical and social — and to promote better care and treatment for persons with epilepsy.





The 24th Annual Merritt-Putnam Symposium

The Developing Epileptic Brain

REGISTRATION AND BREAKFAST: 7:30 a.m.

AWARDS PRESENTATION: 8:30 a.m.

PROGRAM: 8:35 a.m.-12:30 p.m.

BOXED LUNCHESES: 12:30 p.m.-1:30 p.m.

Overview

This symposium will provide clinicians who care for patients with epilepsy a greater understanding of the relationship between the developing brain and the eventual seizure disorder. Critical components during development of the brain that can lead to seizure disorders, such as environmental insults, biochemical abnormalities, and inherited lesions will be presented. A discussion of the neurobiology of the developing brain and how it affects the potential for seizures will help clinicians better manage their patients. Advances in neuroimaging of the structure and function of brain circuits will help predict the potential for seizures. Brain circuitry will be discussed, including remodeling of microcircuits and its impact on seizures. Finally, discussions will be provided on neurotransmitter receptor remodeling, neuronal cell loss, and neuroprotection, with a focus on how they can have an impact on seizures and alter response to antiepileptic therapy.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Identify lesions in the developing brain using structural and functional imaging
- Explain how excitatory neurons are born and organized in the human neocortex
- Describe where interneurons arise in the brain and how they modify cortical circuits
- Identify neurotransmitter receptor changes that may have an impact on therapy in the developing brain
- Recognize the effect of seizures on vulnerability in the immature brain
- Discuss strategies to improve clinical neuroprotection in the epileptic brain.

Target Audience

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

Program

Chair: Jeffrey L. Noebels, M.D., Ph.D.

- Imaging the Cortex
P. Ellen Grant, M.D.
- Constructing Circuits
Arnold R. Kriegstein, M.D., Ph.D.
- Adding Interneurons
Pat R. Levitt, Ph.D.
- Rearranging Receptors
Amy R. Brooks-Kayal, M.D.
- Losing Neurons
Darrell V. Lewis, M.D.
- Protecting Neurons
Donna M. Ferriero, M.D.

Accreditation

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

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 3.5 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Acknowledgment

The *Merritt-Putnam Symposium* and its re-purposing on the AES Web site with CME credit is supported by an educational grant from Pfizer Inc.

Saturday, December 4 • 2:30 p.m.-5:15 p.m.

The 8th Annual AES Anti-epileptic Therapy Symposium

Evidence-Based Guidelines in Anti-epileptic Therapy

REGISTRATION: 2:00 p.m.

AWARDS PRESENTATION: 2:30 p.m.

PROGRAM: 2:45 p.m.-5:15 p.m.

CO-CHAIRS: BLAISE F.D. BOURGEOIS, M.D., AND JAMES C. CLOYD, PHARM.D.

Overview

The evidence-based approach to healthcare has been an important trend in recent years both inside and outside the epilepsy community. The purpose of this symposium is to critically review the process and promulgation of recently developed guidelines as they apply to anti-epileptic drugs. The symposium will begin with a review of the terminology and methods used in the development of evidence-based guidelines. It will present a critical analysis of two recently developed sets of guidelines for drug treatment of new-onset and refractory epilepsy. Finally, the symposium will address the impact such guidelines have on various aspects of the clinical practice of treating patients with epilepsy.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Describe the terminology and methods used in the development of evidence-based guidelines
- Name drugs of choice for initial monotherapy for epilepsy as stated in the guidelines developed by the International League Against Epilepsy (ILAE)
- Name drugs of choice for the treatment of patients with refractory epilepsy as stated in the guidelines developed by the American Academy of Neurology (AAN)
- Describe limitations of the ILAE and AAN guidelines
- List some of the effects of evidence-based guidelines on the clinical treatment of patients with epilepsy.

Target Audience

Neurologists, neuroscientists, neurosurgeons, pharmacists, nurses, and other healthcare professionals involved in the care of patients with epilepsy, as well as those involved in the field of evidence-based guideline research.

Program

Co-Chairs: Blaise F.D. Bourgeois, M.D., and James C. Cloyd, Pharm.D.

- Terminology and Methods for Guidelines
Tracy A. Glauser, M.D.
- Initial Monotherapy for Epileptic Seizures and Syndromes with AEDs: Evidence-Based Guidelines
Elinor Ben-Menachem, M.D., Ph.D.
- AAN Guidelines on the Use of New Anti-epileptic Drugs in Refractory Epilepsy: Where the Data Can Take You
Jacqueline A. French, M.D.
- The Impact of Guidelines on Clinical Practice
Andres M. Kanner, M.D.

Accreditation

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

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 2.5 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Acknowledgment

This symposium and its re-purposing with CME on the AES Web site is supported by educational grants from

Abbott Laboratories

Eisai Inc.

GlaxoSmithKline

Novartis Pharmaceuticals Corporation

Ortho McNeil Pharmaceuticals, Inc.

Pfizer Inc.

Shire US, Inc.

UCB Pharma, Inc.

Xcel Pharmaceuticals, Inc.

This list represents funders as of June 22, 2004.

Co-sponsored by the American Epilepsy Society and the Center for Advanced Medical Education, Inc.

Saturday, December 4 • Special Interest Groups/Investigators' Workshop

Special Interest Groups 12:45 p.m.-2:15 p.m.

CLINICAL ROUNDTABLE — HORMONES AND EPILEPSY: SEXUALITY AND SEIZURES

Coordinator: Cynthia L. Harden, M.D.

This is an open session and anyone can bring their viewpoint or new unpublished findings to present (maximum five minutes, one slide). Three pairs of investigators will debate (and the audience will discuss) the influence of epilepsy on clinical aspects of male and female sexuality, and the therapy of sexual problems in epilepsy including the use of hormones or hormonal modification.

CONTROVERSIES IN EPILEPSY — EPILEPSY SURGERY: CASE DISCUSSIONS

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

The clinical history, results of EEG/video recordings, MRI findings and other pertinent information of three cases with intractable epilepsy will be presented. The value of different signs and symptoms in the definition of the epileptogenic zone and also the surgical options will be discussed with the audience. Each case will be classified using the ILAE and the five-dimensional patient-oriented classification system. The results of surgery will be shown.

JUNIOR INVESTIGATOR WORKSHOP — TIMES ARE CHANGING: DO YOU HAVE WHAT IT TAKES TO SUCCEED?

Coordinators: Scott C. Baraban, Ph.D.,
Meena Hiremath, Ph.D., and Margaret P. Jacobs

This session will enable one to reflect on how changing times and environment might affect one's goals. What will it take to make it in academics these days? How competitive will grant writing be? What are some ways of maximizing career success? What sacrifices will I and/or my loved ones have to make?

NEUROPHARMACOLOGY

Coordinator: Andres M. Kanner, M.D.
Details not available at time of print.

NEUROSTIMULATION: NEW DEVELOPMENTS

Coordinators: Douglas R. Labar, M.D., Ph.D., and
James W. Wheless, M.D.
Details not available at time of print.

NURSING — CLINICAL CHALLENGES IN THE CARE OF EPILEPSY PATIENTS

Coordinators: Linda Goldenberg, M.S.N., NP,
Susan O. Smith, NP

It's that time again! Last year the topics included exciting presentations on pseudoseizures, a pilot study of a family management program and a discussion of complex case studies. This year we will cover Ictal SPECT imaging, managing pain, nausea and anxiety after epilepsy surgery and providing care to women with epilepsy. We have added a forum to promote networking among advanced practice and nursing staff involved in the care of epilepsy patients. Please e-mail any topics that you would like discussed to Lgoldenber@sbhcs.com.

PSYCHIATRIC ISSUES IN EPILEPSY

Coordinator: Alan B. Ettinger, M.D.

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.

TRANSLATIONAL RESEARCH: FUNDING

Coordinators: Orrin Devinsky, M.D., and Warren Lammert

This special interest group seeks interested members from basic and clinical science corporations (especially research and development), and lay groups. Areas of interest may include molecular biology, neurochemistry and ion channel physiology, genetics, anti-epileptic drug development (new models, moving potential agents into trials), seizure prediction/stimulation technology, and surgical procedures. The goal is to create a forum for dialogue among different interests, solicit new ideas, and promote collaborations that move the epilepsy community towards translational research projects that advance new therapies.

New

Investigators' Workshop

4:00 p.m.-5:30 p.m. (Sheraton)

The Epileptic Neuron: Changes in Intrinsic Neuronal and Dendritic Excitability

Moderators: Scott M. Thompson, Ph.D.,
Cha-Min Tang, M.D., Ph.D.

Speakers: Ivan Soltesz, Ph.D., Heinz Beck, M.D.,
Dan Johnston, Ph.D., Scott M. Thompson, Ph.D.

7:00 p.m.-8:30 p.m. (Sheraton)

Sodium Channel Mutations in Familial and Sporadic Epilepsy

Moderator: Miriam H. Meisler, Ph.D.

Speakers: Peter De Jonghe, M.D., Ph.D.,
Mauricio Montal, Ph.D., Jennifer Kearney, Ph.D.

Epilepsy in the Elderly—Old Concepts and New Data

Reception: 6:00 p.m.-7:00 p.m. • Program: 7:00 p.m.-9:30 p.m.
(Sheraton)

Overview

Epilepsy in the elderly population is a common yet relatively understudied condition. Management of epilepsy in elderly patients can be a complex clinical challenge as this population is commonly burdened by comorbid disease states, polypharmacy, and adverse effects of anti-epileptic medications. However, if undertreated, patients will suffer from the dangerous consequences of seizures. It is important to understand the latest clinical data to successfully implement the most effective treatment practices for this population.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Review the importance of appropriate diagnosis of seizures in the elderly
- Describe current trends in the epidemiology of epilepsy in the elderly
- Discuss neurobehavioral and cognitive effects of anti-epileptic medications on elderly patients
- Examine the impact of drug interactions and pharmacokinetic properties of anti-epileptic medications on the elderly epileptic patient
- Identify key issues and treatment strategies in the management of epilepsy in the elderly.

Target Audience

Neurologists and epileptologists.

Program

Chair: L. James Willmore, M.D.

- Before (or After) the Fall: A Practical Rapid Approach
Joseph H. Flaherty, M.D.
- Diagnosis and Epidemiology
Mark C. Spitz, M.D.
- Pharmacokinetics and Drug Interactions
James C. Cloyd, Pharm.D.
- Cognition and Behavior
John R. Gates, M.D.
- Epilepsy Treatment Strategies
A. James Rowan, M.D.

Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Epilepsy Society and Millennium Medical Communications, Inc. The AES is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 2.5 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Acknowledgment

This program and its re-purposing on the AES Web site is supported by an educational grant from Abbott Laboratories.

Pregnancy and Epilepsy

Reception: 6:00 p.m.-7:00 p.m. • Program: 7:00 p.m.-9:30 p.m.
(Sheraton)

Overview

This symposium will provide important practical information to healthcare providers caring for women with epilepsy who are either pregnant or intend to become pregnant. One of the critical issues facing the clinician is how and whether to continue use of anti-epileptic agents once a patient becomes pregnant. This issue will be addressed in the discussion of the impact of maternal seizures on the fetus and the use of anti-epileptic drugs (AEDs). The value of established pregnancy registries in distinguishing among risks of different AEDs will also be addressed. Another important concern of the mother and clinician is the eventual developmental and cognitive outcome of the children. Discussion of this topic will provide meaningful information to clinicians to help advise their pregnant patients. The final discussion will provide clinicians with guidance on managing expectations of the patient with epilepsy who is pregnant or intends to become pregnant.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Discuss the value of tight control of maternal seizures with AEDs compared with the risk of congenital malformations associated with AED therapy
- Discuss with patients who have epilepsy the latest information concerning risks of impaired developmental and cognitive outcomes in their infants
- Identify the various pregnancy registries and how they can help in the overall management of seizures in pregnant patients
- Describe how current information concerning optimal use of AED therapy, pregnancy registries, and neurodevelopmental issues can be used to optimize management of pregnant patients with epilepsy.

Target Audience

Epileptologists, neurologists, neuroscientists, neurosurgeons, pharmacists, nurses, and other healthcare providers who care for patients with epilepsy who are pregnant or intend to become pregnant.

Program

Chair: Mark S. Yerby, M.D.

- Maternal Seizures, Maternal Epilepsy, and AEDs: The Variables Associated with Congenital Malformations
Cynthia L. Harden, M.D.
- Development and Cognitive Outcomes of Infants of Mothers with Epilepsy
Kimford J. Meador, M.D.
- Pregnancy Registries: Their Utility and Role in Guiding Clinical Decision-Making
W. Allen Hauser, M.D.
- Practical Management of the Pregnant Woman with Epilepsy
Deborah T. Combs-Cantrell, M.D.

Accreditation

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

Credit Designation

The American Epilepsy Society designates this educational activity for up to 2.5 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Co-sponsored by the American Epilepsy Society and the Center for Advanced Medical Education, Inc.

Acknowledgment

This program and its re-purposing on the AES Web site with CME credit is supported by an educational grant from Novartis Pharmaceuticals Corporation.

Sunday, December 5 • At-a-Glance

Sunday Special Interest Group Meetings

12:15 p.m.-1:45 p.m.

Clinical Pharmacology — Translating Basic Science Research into Clinical Practice and Herbal Medicine
Update in Patients with Epilepsy

Magnetoencephalography (MEG) — New Outcome Studies

Neuroendocrinology — Estrogen and Seizures: For Better or Worse?

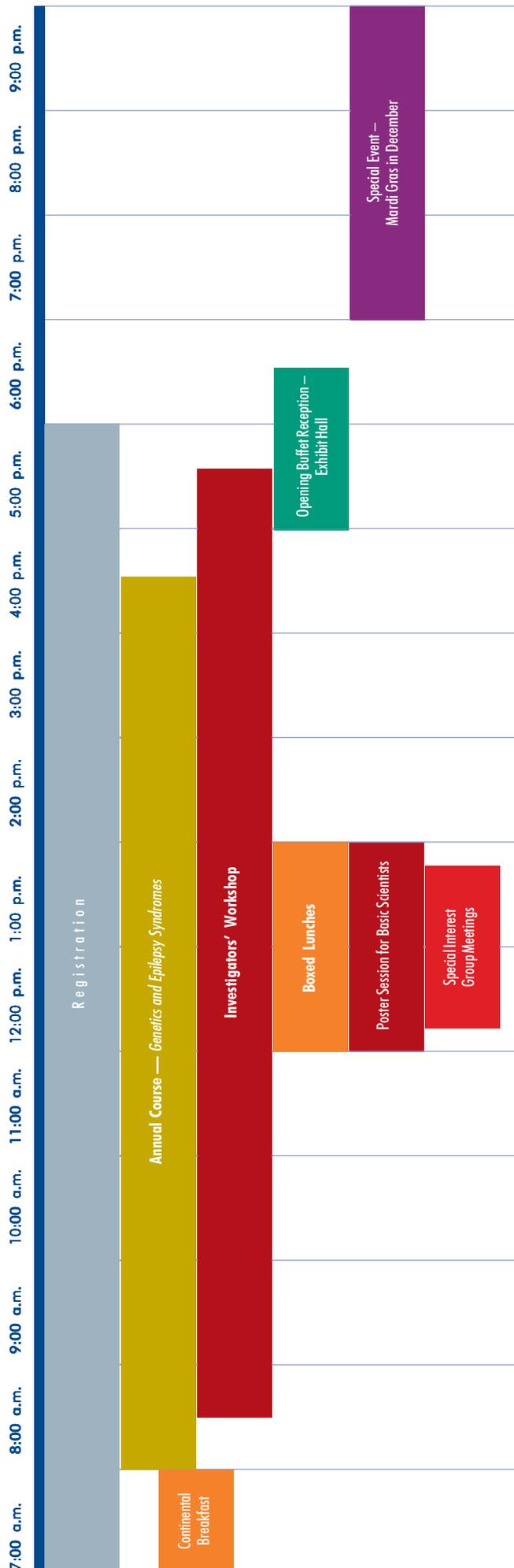
Neuropsychology — Studies of Semantic Memory in Pre- and Post-surgical Epilepsy Patients

Patient-Reported Outcomes — Anxiety, Depression, Neuroticism: Do They Determine Patient Outcomes?

Sleep and Epilepsy — The Effect of Sleep Deprivation and Circadian Influences On Seizure Control

Temporal Lobe — Epilepsy Surgery in Developing Countries

The Ketogenic Diet: Mechanisms of Action and Translational Studies



Sunday, December 5 • 8:00 a.m.- 4:30 p.m.

Annual Course

Genetics and Epilepsy Syndromes

COURSE CO-DIRECTORS: ANDREW J. COLE, M.D., FRCP(C), AND ORRIN DEVINSKY, M.D.

Overview

The 2004 AES Annual Course, "Genetics and Epilepsy Syndromes," will focus on defining the state of the art in genetic information about human epilepsy. Following an initial review of the genetics of complex diseases, syndromes of generalized and focal epilepsies affecting children and adults will be reviewed with special attention to their genetic basis. Use of family history, issues of drug resistance, and genetic insights into the basic mechanisms of epilepsy will be discussed. The course will feature major talks by leaders in the field, and will utilize focused case presentations by leading clinicians to illustrate clinical issues that arise in the evaluation of patients and to demonstrate the utility of genetic information.

Program

7:00 a.m.-8:00 a.m.	Registration and Continental Breakfast	11:25 a.m.-11:30 a.m.	Case Presentation #5 — Multidrug Resistance Martin J. Brodie, M.D.
8:00 a.m.-8:05 a.m.	Welcome and Introduction Andrew J. Cole, M.D., FRCP(C)	11:30 a.m.-Noon	Genetics of Drug Resistance Sanjay M. Sisodiya, M.D.
8:05 a.m.-8:10 a.m.	Case Presentation #1 – Migraine and Epilepsy Edward B. Bromfield, M.D.	Noon-2:00 p.m.	Boxed Lunch and Special Interest Groups
8:10 a.m.-8:45 a.m.	Analysis of Complex Genetic Diseases Ruth Ottman, Ph.D.	2:00 p.m.-2:05 p.m.	Case Presentation #6 – GEFS+
8:45 a.m.-8:50 a.m.	Case Presentation #2 – Refractory Primary Generalized Epilepsy Mohamad Mikati, M.D.	2:05 p.m.-2:35 p.m.	Blanca R. Vazquez, M.D. Neonatal Syndromes and GEFS+: Clinical Consideration
8:50 a.m.-9:25 a.m.	Primary Generalized Epilepsy Syndromes Samuel F. Berkovic, M.D.	2:35 p.m.-2:40 p.m.	Ingrid E. Scheffer, Ph.D., FRACP Case Presentation #7 – Absence Epilepsy with Hirsutism and Limited Language Comprehension
9:25 a.m.-9:30 a.m.	Case Presentation #3 – Linear Nevus Syndrome Prakash Kotagal, M.D.	2:40 p.m.-3:10 p.m.	Jeffrey L. Noebels, M.D., Ph.D. Neonatal Syndromes and GEFS+: Mechanistic Considerations
9:30 a.m.-10:05 a.m.	Neurocutaneous Syndromes and Epilepsy: Issues in Diagnosis and Management Helen J. Cross, M.D.	3:10 p.m.-3:30 p.m.	Daniel L. Burgess, Ph.D. Break
10:05 a.m.-10:25 a.m.	Question and answer panel discussion	3:30 p.m.-3:35 p.m.	Case Presentation #8 – Familial Temporal Lobe Epilepsy with Auditory Features
10:25 a.m.-10:45 a.m.	Break		Fernando Cendes, M.D., Ph.D.
10:45 a.m.-10:50 a.m.	Case Presentation #4 – Familial JME Melodie R. Winawer, M.D., M.S.	3:35 p.m.-4:10 p.m.	Genetic Focal Epilepsies: State of the Art and Path to the Future Frederick Andermann, M.D., FRCP(C)
10:50 a.m.-11:25 a.m.	Genetic Epidemiology and Seizure Susceptibility Shlomo Shinnar, M.D., Ph.D.	4:10 p.m.-4:30 p.m.	Question and answer panel discussion

Learning Objectives

At the conclusion of this activity, participants should be able to:

- State the principles of identifying the genetic basis of diseases that manifest complex inheritance
- Describe and recognize genetically determined epilepsies in clinical practice
- Identify the issues involved in relating genetic abnormalities to the pathophysiology of epilepsy
- Describe potential biochemical causes of anti-convulsant drug resistance and apply this information to clinical practice.

Acknowledgment

This program and its re-purposing on the AES Web site with CME credit is supported in part by an educational grant from Ortho-McNeil Pharmaceutical, Inc.

Target Audience

Physicians involved in the evaluation and treatment of epilepsy, including neurologists, neurosurgeons and psychiatrists, epilepsy and neurophysiology fellows, residents and other healthcare professionals.

Accreditation

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

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 6.0 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Investigators' Workshop

INVESTIGATORS' WORKSHOP CHAIR: KEVIN J. STALEY, M.D.
CLINICAL INVESTIGATORS' WORKSHOP CHAIR: WILLIAM D. GAILLARD, M.D.

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.

Clinical workshops will cover pitfalls and solutions in the use of MEG and EEG for source localization; the role of flumazenil in presurgical PET scanning; study design, implementation, and analysis using outcomes measures to assess cognitive effects of AEDs; and mechanisms of pharmacoresistance.

The number of basic workshop topics have been expanded this year, with additional workshops on Saturday evening and Monday afternoon. Topics include changes in dendritic excitability in epilepsy; the molecular mechanisms by which sodium channel mutations may lead to epilepsy; the role of kainate receptors in epilepsy; mechanisms of action of the ketogenic diet; modification of G-protein linked ionic conductances as a mechanism for epileptogenesis; neurotrophins in epilepsy; nonsynaptic seizure mechanisms; developmental epilepsy models; epilepsy models for aging; plasticity of chloride transport and GABA signaling; and neuronal migration in cortical development.

Target Audience

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

Program

Morning Session I (8:30 a.m.-10:00 a.m.)

■ Models of Epilepsy in Aging

Moderator: Kevin M. Kelly, M.D., Ph.D.

Speakers: Eric M. Blalock, Ph.D., Peter R. Patrylo, Ph.D., Kevin M. Kelly, M.D., Ph.D.

■ Plasticity of Chloride Transport and GABA Signaling

Moderator: Massimo Avoli, M.D., Ph.D.

Speakers: Melanie Woodin, Ph.D., Richard Miles, Ph.D. Francisco J. Alvarez-Leefmans, M.D., Ph.D.

■ Assessing Cognitive Effects and Outcomes of AEDs

Moderator: David W. Loring, Ph.D.

Speakers: Kimford J. Meador, M.D., Gus Baker, Ph.D.

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

Morning Session II (10:30 a.m.-Noon)

■ Origin and Migration of Cortical Neurons

Moderator: Arnold R. Kriegstein, M.D., Ph.D.

Speakers: Joseph Loturco, Ph.D., Stewart A. Anderson, M.D., Samuel J. Pleasure, M.D., Ph.D.

■ Ketone Bodies and Neuronal Excitability

Moderator: Jong M. Rho, M.D.

Speakers: W. McIntyre Burnham, Ph.D., Gary Yellen, Ph.D., Jong M. Rho, M.D.

■ MEG and EEG: Advances and Controversies in Source Localization-Related Epilepsy

Moderator: Paul A. Garcia, M.D.

Speakers: John S. Ebersole, M.D., William Sutherling, M.D.

Noon-2:00 p.m. Boxed Lunches and Poster Session for Basic Scientists

Afternoon Session I (2:00 p.m.-3:30 p.m.)

■ Creating New Animal Models of the Childhood Epilepsies

Moderator: Margaret P. Jacobs

Speakers: Solomon L. Moshé, M.D., Astrid Nehlig, Ph.D., Philip A. Schwartzkroin, Ph.D., John W. Swann, Ph.D.

■ The Role of Kainate Receptors in Epilepsy

Moderator: John J. Hablitz, Ph.D.

Speakers: Anis Contractor, Ph.D., Michael A. Rogawski, M.D., Ph.D., Yehezkel Ben-Ari, Ph.D.

■ Flumazenil PET in Human Epilepsy

Moderator: William D. Gaillard, M.D.

Speakers: Csaba Juhasz, M.D., Alexander Hammers, M.D.

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

Afternoon Session II (4:00 p.m.-5:30 p.m.)

■ Non-synaptic Seizure Mechanisms

Moderators: Peter L. Carlen, M.D., John G.R. Jefferys, Ph.D.

Speakers: Dominique Durand, Ph.D., Ante L. Padjen, M.D., Renato Rozental, M.D.

■ Neurotrophins: Epileptogenesis and Electroconvulsive Seizures

Moderator: James O. McNamara, M.D.

Speakers: James O. McNamara, M.D., Helen E. Scharfman, Ph.D., Samuel S. Newton, Ph.D.

■ Mechanisms of Pharmacoresistance in Epilepsy

Moderator: Terence J. O'Brien, M.D.

Speakers: Annamaria Vezzani, Ph.D., Heinz Beck, M.D.

Sunday, December 5 • Special Interest Groups

Special Interest Groups 12:15 p.m.-1:45 p.m.

CLINICAL PHARMACOLOGY — TRANSLATING BASIC SCIENCE RESEARCH INTO CLINICAL PRACTICE AND HERBAL MEDICINE UPDATE IN PATIENTS WITH EPILEPSY

Coordinators: Jacquelyn Bainbridge, Pharm.D., Ruth E. Nemire, Pharm.D.

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.

MAGNETOENCEPHALOGRAPHY (MEG) — NEW OUTCOME STUDIES

Coordinator: John R. Gates, M.D.

This SIG will overview the latest outcome studies for epilepsy localization and functional mapping of MEG with an eye to implications for third-party reimbursement.

NEUROENDOCRINOLOGY — ESTROGEN AND SEIZURES: FOR BETTER OR WORSE?

Coordinators: Cynthia L. Harden, M.D., Pavel Klein, M.D., Jana Veliskova, M.D., Ph.D.

This SIG is dedicated to a discussion of the conflicting evidence regarding estrogenic effects on seizures. Although estrogen has been proconvulsant in some experiments, it is also important for maintaining normal neurophysiological status, and therefore lack of estrogen can also permit seizures. The basic science of estrogen in the brain will be discussed as well as its impact on patients with epilepsy. Potential management options using estrogen manipulation will also be presented.

NEUROPSYCHOLOGY — STUDIES OF SEMANTIC MEMORY IN PRE- AND POST-SURGICAL EPILEPSY PATIENTS

Coordinator: Sara J. Swanson, Ph.D.

The neuropsychology SIG will discuss semantic memory deficits in epilepsy patients. Studies of category-specific naming and recognition deficits, verbal and visual semantic memory, and knowledge of new English vocabulary will be presented. Presenters will discuss semantic memory models and neuroanatomical correlates of semantic memory deficits, including semantic memory and its relationships with 1) gray matter volumes in left temporal lobe, 2) lateral versus medial temporal lobe lesions, and 3) unilateral versus bilateral lesions.

PATIENT-REPORTED OUTCOMES — ANXIETY, DEPRESSION, NEUROTICISM: DO THEY DETERMINE PATIENT OUTCOMES?

Coordinators: Samuel Wiebe, M.D., Frank G. Gilliam, M.D., M.P.H.

The group discussions will focus on health-related outcomes that are patient-centered. This includes quality of life and its determinants. Researchers exploring specific areas will share their findings and invite attendees to participate. Topics cover a broad range of patient-reported outcomes research in pediatric and adult epilepsy. There will be a strong emphasis on relevance to clinical practice.

SLEEP AND EPILEPSY — THE EFFECT OF SLEEP DEPRIVATION AND CIRCADIAN INFLUENCES ON SEIZURE CONTROL

Coordinator: Nancy R. Foldvary-Schaefer, D.O.

Sleep deprivation has long been recognized as a seizure precipitant in people with epilepsy. This session will review the effects of sleep deprivation on seizures and interictal epileptiform activity and the influences of the circadian system on epilepsy. We will address whether better sleep really improves seizure control and highlight areas deserving of future research efforts.

TEMPORAL LOBE — EPILEPSY SURGERY IN DEVELOPING COUNTRIES

Coordinator: Jerome Engel, Jr., M.D., Ph.D.

Only a small percentage of potential candidates for epilepsy surgery are referred to surgical centers, and these are made an average of 20 years after onset of epilepsy. Given that early surgical intervention is now recommended for surgically remediable syndromes, this discussion will focus on reasons why patients are reluctant to consider surgical therapy, and reasons why it may take many years to determine that AEDs are ineffective.

THE KETOGENIC DIET: MECHANISMS OF ACTION AND TRANSLATIONAL STUDIES

Coordinator: Thomas N. Seyfried, Ph.D.

The high-fat, low-carbohydrate ketogenic diet (KD) was developed originally to mimic the anti-epileptic effects of fasting. The KD is effective in managing intractable seizures in children and adults, but the mechanisms of action remain unclear. It is likely that the diet affects multiple brain metabolic systems simultaneously thereby rendering seizure management. The KD is also effective in managing seizures in animal models. A standardization of dietary practices and biomarker measurements would likely maximize the translational benefit of the animal models to the clinic.

Monday, December 6 • At-a-Glance

Monday Special Interest Group Meetings

7:00 a.m.-8:30 a.m.

Basic Neuroscience — Neuropeptides and Epilepsy: New Therapies For An Old Disease?

Nursing Research — Identification of Clinical Nursing Research Problems: What Are They and How Will We Proceed?

5:30 p.m.-7:00 p.m.

EEG-Dependent Epilepsy Therapy

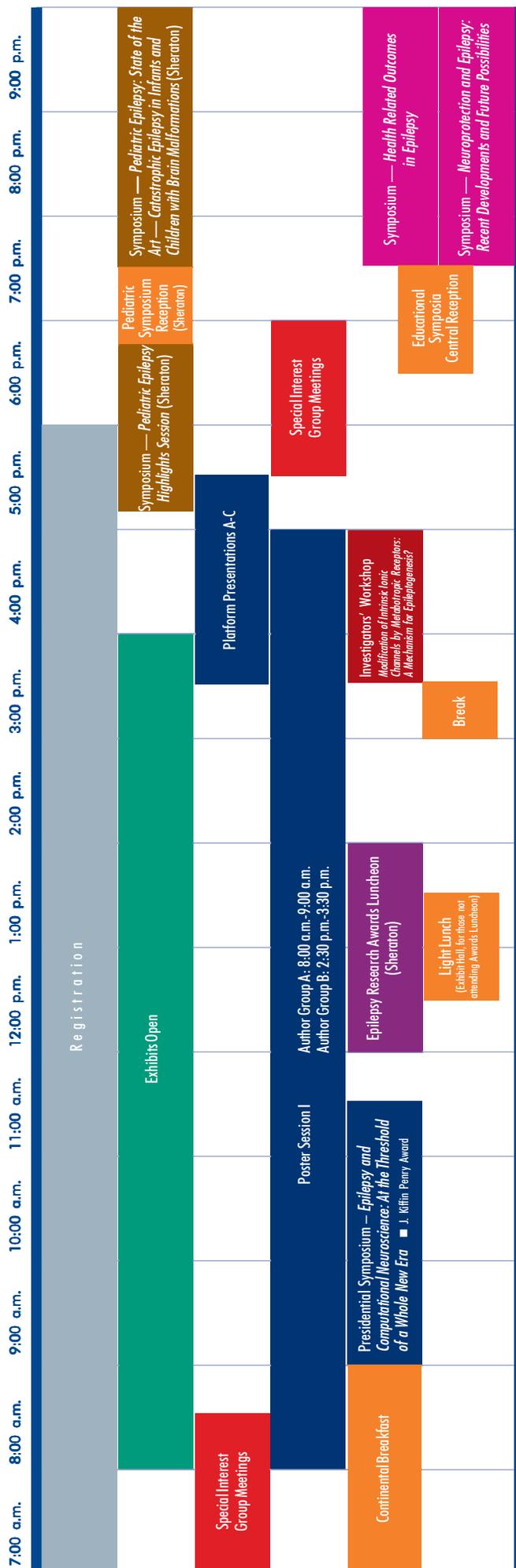
Engineering and Epilepsy — Analysis of Brain Dynamics With Applications to Focus Localization, Seizure Prediction and Control in Animal and Human Models of Epilepsy

Genetics — Mouse Models of Human Genetic Epilepsy

How To Obtain NIH Funding — Opportunities and Options

Surgery — Surgical Treatment of Neocortical Epilepsy

Women With Epilepsy — Contraception



Monday

Epilepsy Research Awards Luncheon
12:00 p.m.-2:00 p.m.
Sheraton
New Orleans Hotel

J. Kiffin Penry Award Presentation
This award, funded by Abbott Laboratories, was established in 1997. The winner need not be an AES member. The award honors Dr. Penry's lifelong focus on and genuine concern for the patient with epilepsy, by recognizing individuals whose work has had a major impact on patient care and improved the quality of life for persons with epilepsy, as well as recognizing excellence in the care of persons with epilepsy.

The AES Presidential Symposium

Epilepsy and Computational Neuroscience: At the Threshold of a Whole New Era

PROGRAM: 9:00 a.m.-11:30 a.m.
CHAIR: DANIEL H. LOWENSTEIN, M.D.

Overview

Computational neuroscience and bioinformatics have moved onto the center stage of modern science, linked in large part to the process of sequencing the genome of humans and other organisms, and the recognition that the astonishing complexity of biological systems can only be understood through the power of mathematical analysis and modeling. Epilepsy is clearly a manifestation of multiple pathophysiological processes impinging upon intricate networks, with the added complexity of the network dysfunction being intermittent and difficult to predict. Although computational approaches for the understanding of seizures and epilepsy have been studied for decades, the last few years have brought major conceptual advances. This rapidly moving field is becoming a regular part of basic epilepsy research, and is even resulting in direct, clinical application. The goal of this symposium is to provide a primer on computational neuroscience to clinicians and scientists not familiar with the field, and demonstrate how approaches and methods in this area of science are being used to understand properties of normal network function and network excitability.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Understand the major concepts used in designing computer-based, mathematical models of neural networks
- List two or three characteristics that appear to maintain the relative stability of neuronal networks
- Describe two examples of changes within a neuronal network (one at the level of the membrane, the other at the level of cell-cell connections) that have been observed in humans and modeled through computer simulations
- Explain how modeling techniques are allowing scientists to break down seizure precursors into their component mechanisms, and to map functional epileptic networks in a way that can be applied to clinical practice.

Target Audience

Practicing clinicians and other healthcare personnel involved in the direct care of patients with epilepsy, as well as other clinician-scientists and basic scientists.

Program

Chair: Daniel H. Lowenstein, M.D.

- Introduction: On the Rise of the Machines
Daniel H. Lowenstein, M.D.
- Stability and Plasticity In Neuronal and Network Dynamics
Eve Marder, Ph.D.
- Using Computers to Identify Key Structure-Function Alterations in Epileptic Circuits
Ivan Soltesz, Ph.D.
- The Role of Computational Neuroscience in Understanding Seizure Generation and Prediction
Brian Litt, M.D.

Accreditation

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Credit Designation

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Re-purposing

This program will be re-purposed on the AES Web site.

Monday, December 6 • Special Interest Groups/Investigators' Workshop

Special Interest Groups 7:00 a.m.-8:30 a.m.

BASIC NEUROSCIENCE — NEUROPEPTIDES AND EPILEPSY: NEW THERAPIES FOR AN OLD DISEASE?

Coordinator: Steven Rothman, M.D.

There is established neurobiology literature linking a variety of neuropeptides, including tachykinins, galanin, somatostatin, neuropeptide Y, corticotrophin releasing hormone, and leptin to neuronal excitability. Newer data suggests these substances and/or their receptors play a role in seizure initiation and maintenance. The relationship between these peptides and epilepsy will be reviewed in three presentations. Time will be reserved for an open discussion period following the talks.

NURSING RESEARCH — IDENTIFICATION OF CLINICAL NURSING RESEARCH PROBLEMS: WHAT ARE THEY AND HOW WILL WE PROCEED?

Coordinators: Janice M. Buelow, Ph.D., RN, Angela M. McNelis, Ph.D., RN

This year we will brainstorm to identify clinical nursing research problems and how to study these problems. We hope that this will lead not only to networking but also to possibly starting preliminary work on initiating some of these clinical studies.

New

Investigators' Workshop

3:30 p.m.-5:00 p.m.

Modification of Intrinsic Ionic Channels by Metabotropic Receptors: A Mechanism for Epileptogenesis?

Moderators: Robert K.S. Wong, Ph.D.

Speakers: Nelson Spruston, Ph.D., Angel Alonzo, Ph.D., Lisa R. Merlin, M.D.

Special Interest Groups 5:30 p.m.-7:00 p.m.

EEG-DEPENDENT EPILEPSY THERAPY

Coordinator: John S. Ebersole, M.D.

Several non-traditional therapies are being developed for treating seizure disorders. Most depend upon ongoing analysis of EEG to predict or detect seizures and to determine the parameters, timing, and effect of delivered therapy. Invited speakers will review these new "therapeutic" roles for EEG.

ENGINEERING AND EPILEPSY — ANALYSIS OF BRAIN DYNAMICS WITH APPLICATIONS TO FOCUS LOCALIZATION, SEIZURE PREDICTION AND CONTROL IN ANIMAL AND HUMAN MODELS OF EPILEPSY

Coordinators: Leonidas D. Iasemidis, Ph.D., J. Chris Sackellares, M.D.

Recent advances in signal processing and mathematical modeling of recorded long-term brain activity have revealed hidden characteristics of the dynamics of the epileptic brain in the interictal and peri-ictal periods that could be utilized for interictal and peri-ictal focus localization, real-time long-term prediction and control of epileptic seizures. Design of new AEDs, as well as development of novel treatments based on closed-loop DBS devices, are but a few of the potential outcomes of this line of research.

GENETICS — MOUSE MODELS OF HUMAN GENETIC EPILEPSY

Coordinator: Daniel L. Burgess, Ph.D., Nanda A. Singh, Ph.D.

Mouse models have greatly facilitated investigations into the pathogenesis of human genetic epilepsy. The development of new techniques for manipulating the mouse genome have played a particularly important role. Our SIG will examine state-of-the-art approaches for developing and characterizing mouse models of epilepsy, review some recent examples, and discuss theoretical and practical limitations of using the mouse as a model of human inherited epilepsy.

HOW TO OBTAIN NIH FUNDING — OPPORTUNITIES AND OPTIONS

Coordinator: Margaret P. Jacobs, NINDS

NINDS staff and extramural researchers will provide tips to new investigators and others who may be interested in the NIH grants process.

SURGERY — SURGICAL TREATMENT OF NEOCORTICAL EPILEPSY

Coordinator: Steven N. Roper, M.D.

The Surgery SIG is concerned with all aspects of surgical management of intractable epilepsy. This includes epidemiology, etiology, diagnosis, functional localization, treatment, surgical techniques, and outcome assessment of surgically remediable epilepsy syndromes. The ultimate goal is open and efficient communication of ideas and information between surgeons who treat people with intractable epilepsy.

WOMEN WITH EPILEPSY — CONTRACEPTION

Coordinators: Alison Pack, M.D., Page Pennell, M.D.

Enzyme-inducing anti-epileptic drugs (AEDs) are associated with decreased efficacy of oral contraceptive pills (OCPs). Current AAN guidelines suggest using a higher dose of estrogen in OCPs when using these drugs. This may not be adequate as progesterone is the contraceptive component of OCPs. The interaction between OCPs and AEDs will be discussed followed by a comprehensive overview of all available forms of contraception.

MONDAY, December 6

Pediatric Epilepsy Highlights Session

Program: 5:15 p.m.-6:45 p.m.
(Sheraton)



New

Overview

In this first annual event, authors of selected key scientific abstracts will present their research. Selection will be made from the fields of pediatric epilepsy, brain development, genetics and other areas of relevance to epilepsy in children.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Have an overview of latest issues germane to Pediatric Epilepsy
- Become familiar with key avenues of current basic neuroscience research
- Become familiar with key avenues of current clinical research.

Target Audience

Pediatric and adult neurologists, epileptologists, neurosurgeons, neuroscientists, residents/fellows in training, healthcare professionals involved in care of children with epilepsy.

Program

Chairs: Elaine Wyllie, M.D. and Deepak Lachhwani, M.B.B.S., M.D.

Presentations by authors will be five minutes each.

Accreditation

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Credit Designation

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MONDAY, December 6

Pediatric Epilepsy State of the Art Symposium



New

Reception and Award Presentation: 6:45 p.m.-7:30 p.m. • Program: 7:30 p.m.-10:00 p.m.
(Sheraton)

Catastrophic Epilepsy in Infants and Children with Brain Malformations

Overview

The annual Pediatric Epilepsy State of the Art Symposium is devoted to enhancing understanding of epilepsy in children. This year's symposium will address basic science and clinical aspects of hemispheric brain malformations that cause catastrophic epilepsy in infants and children.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Understand genetic bases of bilateral hemispheric malformations associated with epilepsy
- Identify predominantly unilateral brain malformations with intractable epilepsy that could be managed surgically
- Learn neuropathological features of brain malformations
- Describe genetic issues and counseling paramount in managing these children and families
- Know future directions and research in this field.

Target Audience

Pediatric and adult neurologists, epileptologists, neurosurgeons, neuroscientists, residents/fellows in training, healthcare professional involved in care of children with epilepsy.

Accreditation

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Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 2.5 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Program

Chair: Elaine Wyllie, M.D.

Co-Chairs: Michael S. Duchowny, M.D., and W. Donald Shields, M.D.

- Genetics, Behavioral Manifestations, and Epilepsy in Children with Lissencephaly and Subcortical Band Heterotopia
Joseph G. Gleason, M.D.
- Genetics, Behavioral Manifestations, and Epilepsy In Children with Polymicrogyria and Periventricular Nodular Heterotopia
Bernard S. Chang, M.D.
- Hemimegalencephaly and Other Predominantly Unilateral Hemispheric Malformations of Cortical Development: Neuroimaging, Clinical Spectrum, and Surgical Therapy
Ajay Gupta, M.D.
- Cellular Mechanisms of Genes That Cause Human Brain Malformations
Volney Sheen, M.D., Ph.D.
- The Impact of Early Catastrophic Epilepsy on Cognitive Development: Lessons From Animal Models
Gregory L. Holmes, M.D.
- The Use of Newer Anti-epileptic Drugs In Infants and Young Children With Catastrophic Epilepsy: Recent Experience and Future Directions
John M. Pellock, M.D.

MONDAY, December 6

Health Related Outcomes in Epilepsy

Reception: 6:30 p.m.-7:30 p.m. • Program: 7:30 p.m.-10:00 p.m.

Overview

Epilepsy exhibits complex and lifelong effects on a person's social, professional, and psychological function. Recent advances in assessment provide important data on adverse health outcomes in epilepsy. This symposium will cover serious outcomes, including death and injury, in addition to drug toxicity and side effects. The impact and management of psychiatric comorbidities, cognitive effects of epilepsy and its treatment, AED-induced bone disease, and education and employment obstacles will also be presented. Together, the topics presented in this symposium tackle the issues involved in the assessment of a patient's quality of life, appropriate interventions, and treatment.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Better understand the major health outcomes associated with epilepsy
- Recognize and manage AED-associated bone disease
- Identify and treat comorbid psychiatric disorders
- Ascertain the cognitive effects associated with epilepsy and its treatment
- Discuss education and employment difficulties related to epilepsy.

Target Audience

Epileptologists, neurologists, psychiatrists, psychologists, and nurses.

Program

Chair: Kimford J. Meador, M.D.

- Partnering With Our Patients: Understanding Serious Adverse Outcomes of Epilepsy
Frank G. Gilliam, M.D., M.P.H.
- Long-Term Use of AEDs and the Impact on Bone Health
Alison M. Pack, M.D.
- The Link Between Mood Disorders and Epilepsy: Why It Is Important to Diagnose and Treat
John J. Barry, M.D.
- Cognitive Effects of Epilepsy and Its Treatment
Bruce P. Hermann, Ph.D.
- Real World Concerns for the Epilepsy Patient: Education and Employment
Robert T. Fraser, Ph.D.

Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Epilepsy Society and IntraMed Scientific Solutions. The AES is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 2.5 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Acknowledgment

This program and its re-purposing on the AES Web site is supported by an educational grant from GlaxoSmithKline.

MONDAY, December 6

Neuroprotection and Epilepsy: Recent Developments and Future Possibilities

Reception: 6:30 p.m.-7:30 p.m. • Program: 7:30 p.m.-10:00 p.m.

Overview

The symposium will begin with a review of the basic science behind cellular injury resulting from seizures. Next, possible targets and opportunities for interventions with neuroprotective agents will be discussed. The next presentation will summarize clinical models of neuroprotection and describe drugs that have failed to show neuroprotective properties. Finally, a summary of the status of anti-epileptic drugs (AEDs) in the arena of neuroprotection will be presented, focusing on recent accomplishments and possibilities for the future.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Understand the mechanisms behind cellular injury from seizures
- Identify the targets and opportunities for intervention with neuroprotective agents
- Discuss clinical models of neuroprotection
- Recognize the current status of AEDs in neuroprotection and understand their possible roles in the future.

Target Audience

Neurologists, epileptologists, clinical and basic researchers, and other allied health professionals with an interest in neuroprotection.

Program

Chair: Raman Sankar, M.D., Ph.D.

- Seizures and Cellular Injury: Understanding the Connection
Denson G. Fujikawa, M.D.
- Interventions With Neuroprotective Agents: Targets and Opportunities
Patrick G. Sullivan, Ph.D.
- Clinical Models of Neuroprotection
Thomas P. Sutula, M.D., Ph.D.
- Anti-epileptic Drugs and Neuroprotection: Current Status and Future Roles
L. James Willmore, M.D.

Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Epilepsy Society and MedLogix Communications, LLC. The AES is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation

The American Epilepsy Society designates this educational activity for a maximum of 2.5 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Acknowledgment

This program and its re-purposing on the AES Web site with CME credit is supported by an educational grant from Eisai Inc.

Tuesday, December 7 • At-a-Glance

Tuesday Special Interest Group Meetings

12:30 p.m.-2:00 p.m.

Basic Mechanisms — Transplantation and Gene Therapy: Alternatives in Alternative Therapies For Temporal Lobe Epilepsy

Children's Hour — Neonatal Seizures: Diagnosis, Treatment and Implications

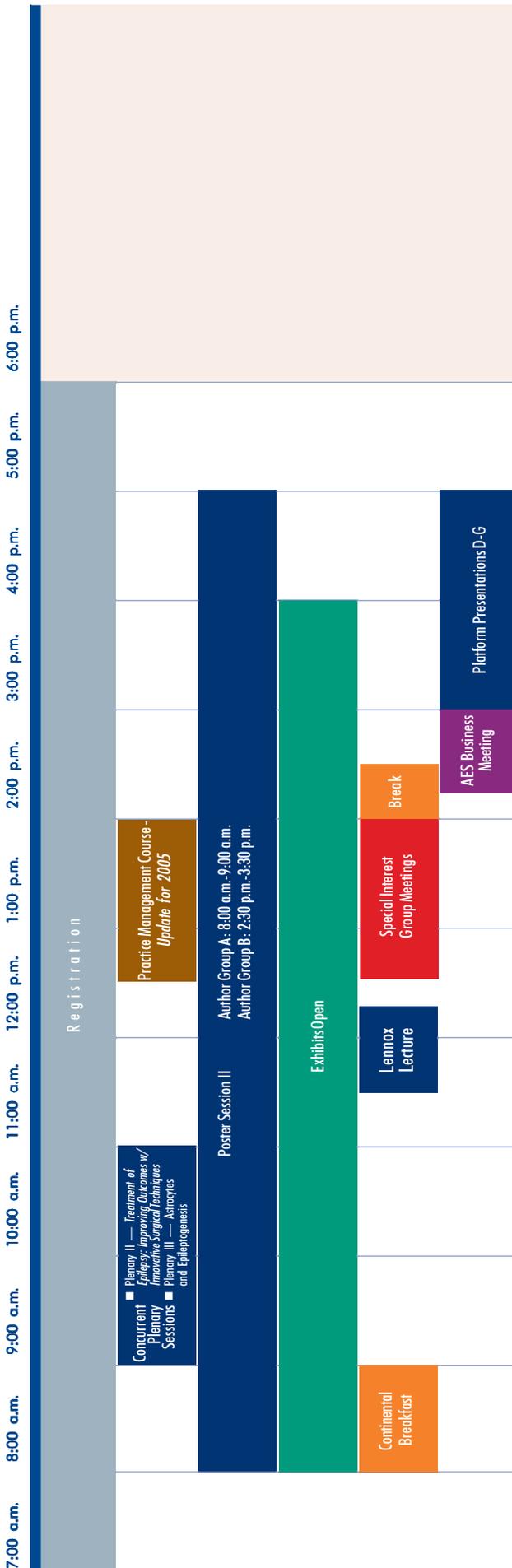
Difficult Issues in Psychogenic Non-Epileptic Seizures (PNES) — New

Frontal Lobe Epilepsy — Neuropsychological Assessment in FLE: What Works? — New

Neuroepidemiology — Depression and Epilepsy

Neuroimaging — Imaging of Dysplasias of Cerebral Cortex

Women In Epileptology — Moving Forward! What Is Needed



Remember to Attend

**AES Business Meeting
TUESDAY, DECEMBER 7**

2:15 p.m.-3:00 p.m.

(Following the Special Interest Group Meetings)

Plenary II—Treatment of Epilepsy: Improving Outcomes with Innovative Surgical Techniques

Program: 9:00 a.m.-11:00 a.m.

Overview

The theme of the symposium is innovative surgical techniques for epilepsy. Three topics (hemispheric syndromes, temporal lobe epilepsy, and tuberous sclerosis) will each include two topics addressed by a neurologist and a neurosurgeon. The talks on hemispheric syndromes will address: 1) selection of candidates for hemispherectomy, with emphasis on innovative approaches to difficult clinical problems; and 2) experience related to seizure outcome and complications of hemispherectomies performed in different clinical settings, and the strategy for choosing the best surgical approach. The talks on temporal lobe epilepsy will address: 1) challenges related to offering temporal resection that is substantial enough to achieve seizure control in the face of concerns about postoperative memory outcome; and 2) the data available so far from surgical trials that may have bearing on this issue. The talks on tuberous sclerosis will address: 1) the available data concerning the roles of conventional MRI, scalp EEG, PET (FDG, flumazenil, and AMT), ictal SPECT, and diffusion-weighted MRI in identifying the epileptogenic tuber(s) for resection; and 2) the overall surgical strategy for patients with tuberous sclerosis, and the experience with multistaged procedures as a technique to identify the epileptogenic tubers that need to be resected to achieve freedom from seizures.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Identify favorable candidates for hemispherectomy for refractory epilepsy, and understand the issues related to selection of operative technique
- Recognize the issues related to surgical planning in temporal lobe epilepsy, to obtain the best seizure outcome with the least risk for postoperative memory deficit
- Appreciate strategies for developing a surgical plan for patients with focal epilepsy due to tuberous sclerosis.

Target Audience

Adult and pediatric neurologists and nurses who care for patients with epilepsy.

Program

Chair: Elaine Wyllie, M.D.

1. Hemispheric Syndromes

- Evolving Concepts in Selection of Hemispherectomy Candidates
Ajay Gupta, M.D.
- Tailoring the Hemispherectomy Technique for Best Seizure Outcome
William E. Bingaman, M.D.

2. Temporal Lobe Epilepsy

- Striking a Balance Between Seizure and Memory Outcome
Frank G. Gilliam, M.D., M.P.H.
- Selective vs. Standard Resection vs. Radiosurgical Ablation: What Have We Learned So Far from Comparative Trials?
Nicholas M. Barbaro, M.D.

3. Tuberous Sclerosis

- Identifying Epileptogenic Tubers by Noninvasive Techniques
Helen Cross, M.D., Ph.D.
- Surgery in Tuberous Sclerosis, and the Role of Invasive Monitoring in the Identification of Epileptogenic Tubers
Howard L. Weiner, M.D.

Accreditation

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Credit Designation

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Re-purposing

This program will be re-purposed on the AES Web site.

Plenary III—Astrocytes and Epileptogenesis

Program: 9:00 a.m.-11:00 a.m.

Overview

The role of astrocytes in the development of seizures and epilepsy remains elusive. This symposium explores recent advances in understanding astrocytic contributions to normal brain development and epileptogenesis. The radial glial cell is a subtype of astrocyte now recognized as the neural stem cell that gives rise to most, if not all, cerebral neurons. The stem cell function of radial glia and their potential involvement in seizure-induced neurogenesis will be described. Astrocytes are also pivotal in the generation of hyperexcitability and seizures in many localization-related epilepsies. Astrocyte dysfunction is specifically implicated in epilepsy pathogenesis in mesial temporal sclerosis, cortical dysplasia, tuberous sclerosis and cerebral gliomas. Potential mechanisms underlying altered astrocytic function, including dysregulated glutamate handling and potassium buffering, will be described for each of these disorders. An improved understanding of astrocyte biology and the involvement of glial cells in epileptogenesis offers the potential for developing novel pharmacological strategies to treat epilepsy.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Describe the role of radial glia in brain development
- Understand how astrocyte function changes in human and experimental temporal lobe epilepsy
- Discuss how altered glutamate handling may contribute to seizures caused by brain tumors
- Describe epileptogenic mechanisms of astrocyte dysfunction in cortical dysplasia and tuberous sclerosis complex.

Target Audience

Practitioners who treat persons with epilepsy, and researchers interested in epilepsy.

Program

Chair: Jack M. Parent, M.D.

- Glial Cells Generate Neurons: How to Regenerate Neurons from Astroglia
Magdalena Gotz, Ph.D.
- Functional and Molecular Changes in Astrocytes of Human Epileptogenic Hippocampus: Relevance to Seizure Generation
Christian Steinhäuser, Ph.D.
- Glutamate Release from Astrocyte-derived Tumors and Its Contributions to Peritumoral Seizures
Harald Sontheimer, Ph.D.
- Astrocytes and Epileptogenesis in Tuberous Sclerosis Complex
Peter B. Crino, M.D., Ph.D.

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Re-purposing

This program will be re-purposed on the AES Web site.

Practice Management Course—Update for 2005

Program: 12:30 p.m.-2:00 p.m.

Overview

Each year, CMS releases updates on billing and coding in the fall which are used for clinical encounters starting the following January. The Practice Management Course collects this information and presents those items which pertain to epilepsy and clinical neurophysiology in its annual update. The course is geared to practicing neurologists and residents and features presentations on ICD-9 changes and CPT-4 changes in these areas. Any late breaking news is also presented. If time permits, related items of medical economics will also be presented. An update on the progress towards use of ICD-10 or new aspects of the Medicare Modernization Act will be given if any new information comes forth before the meeting.

Learning Objectives

At the conclusion of this activity, participants should be able to:

- Know the new ICD-9 codes for 2005
- Know the new changes in CPT codes for neurophysiology for 2005
- Know the Medicare fee schedule for 2005
- Be aware of any late breaking news concerning billing and coding for 2005.

Target Audience

Practicing epileptologists, residents, and fellows.

Program

Chair: Gregory L. Barkley, M.D.

- ICD-9 Update for 2005
Gregory L. Barkley, M.D.
- CPT Update for 2005
John R. Gates, M.D.
- 2005 Medicare Fee Schedule
John R. Gates, M.D.,
Gregory L. Barkley, M.D.
- Late Breaking News
John R. Gates, M.D.,
Gregory L. Barkley, M.D.

Accreditation

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Credit Designation

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L. James Willmore, M.D., *Chair*
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Blaise F. D. Bourgeois, M.D.
Edward B. Bromfield, M.D.
Gregory D. Cascino, M.D.
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Andrew J. Cole, M.D., FRCP(C)
Patricia Dean
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William D. Gaillard, M.D.
Bruce Hermann, Ph.D.
Robert E. Hogan, M.D.
Vicente J. Iragui, M.D., Ph.D.
Frances E. Jensen, M.D.
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Peter R. Camfield, M.D., FRCP(C)
Nathan Crone, M.D.
Colin P. Doherty, M.D.
Nathan B. Fountain, M.D.
Barry E. Gidal, Pharm.D.
Frank G. Gilliam, M.D., M.P.H.
Susan T. Herman, M.D.
Bruce Hermann, Ph.D.
Peter W. Kaplan, M.B., FRCP
Brian Litt, M.D.
Imad M. Najm, M.D.
Terence J. O'Brien, MD, FRACP
Alison Pack, M.D.
Samuel J. Pleasure, M.D., Ph.D.
Raj D. Sheth, M.D.
Elizabeth Thiele, M.D., Ph.D.

2004 Investigators Committee

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P. Elyse Schauwecker, Ph.D.
Mark S. Scher, M.D.
Theodore H. Schwartz, M.D.
David L. Sherman, Ph.D.
Robyn Wallace, Ph.D.
Robert K. S. Wong, Ph.D.

Tuesday, December 7 • Special Interest Groups

Special Interest Groups 12:30 p.m.-2:00 p.m.

BASIC MECHANISMS — TRANSPLANTATION AND GENE THERAPY: ALTERNATIVES IN ALTERNATIVE THERAPIES FOR TEMPORAL LOBE EPILEPSY

Coordinator: Kerry Thompson, M.D.

This is an open session for anyone who can provide insight or new experimental findings that can be presented in a capsulated form (maximum five minutes, one slide). Three pairs of investigators will debate (and the audience will discuss) the science behind, and the current state of the art of, novel therapies for epilepsy. Topics will include: Transplantation of genetically engineered cells, transplantation of fetal tissue or embryonic stem cells, and gene transfer therapies using viral vectors. Relevant issues for discussion are donor tissue and cell sources, appropriate genetic constructs, and viral vector selection, as well as the target patient population.

CHILDREN'S HOUR — NEONATAL SEIZURES: DIAGNOSIS, TREATMENT AND IMPLICATIONS

Coordinators: Paul M. Levisohn, M.D. Jong M. Rho, M.D.

Neonatal seizures remain a significant clinical problem. This children's hour will address issues of diagnosis, current approaches to treatment, implications regarding outcomes, neurodevelopment, and more.

DIFFICULT ISSUES IN PSYCHOGENIC NON-EPILEPTIC SEIZURES (PNES) — NEW

Coordinator: Selim R. Benbadis, M.D.

Psychogenic non-epileptic seizures (PNES) are a common and often difficult problem for neurologists and epileptologists. This SIG will review specific aspects of PNES that make management difficult. First, we present an overview of PNES and some of its common pitfalls. Second, some ethical and legal aspects of PNES are discussed (e.g., provocative techniques, post-traumatic PNES, driving). Third, we discuss the difference among various psychiatric diagnoses, and specifically those that involve voluntary faking (malingering and factitious disorder) versus unconscious production of symptoms. We will then discuss the way PNES should be coded. Finally, for a third of the allotted time, we will have an open discussion on any aspects of the topic.

FRONTAL LOBE EPILEPSY — NEUROPSYCHOLOGICAL ASSESSMENT IN FLE: WHAT WORKS? — NEW

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

The presurgical evaluation of FLE is still immature with respect to prediction of surgical outcomes and comorbidities. This SIG will try to redress some of these issues. Each year a different neurodiagnostic modality will be assessed. The first year focuses on the role of neuropsychological testing in management of FLE. Speakers will present pre- and postoperative data to evaluate which tests are most useful in diagnosing and predicting FLE cognitive deficits. A consensus summary will be presented and the relative roles of activation studies versus "lesional" data will be reviewed. Interested participants with data should contact the course organizer.

NEUROEPIDEMIOLOGY — DEPRESSION AND EPILEPSY

Coordinators: W. Allen Hauser, M.D.,
Dale C. Hesdorffer, Ph.D.

Depression is common both before and after the onset of epilepsy. We will review data supporting the association, mechanisms underlying the association, and methods used to study the association.

NEUROIMAGING — IMAGING OF DYSPLASIAS OF CEREBRAL CORTEX

Coordinator: Gregory D. Cascino, M.D.

This group is for members of the AES with an interest in neuroimaging of epilepsy. Areas of clinical research or controversy will be discussed. The rationale for this special group is to identify topics for possible scientific inquiry and multicenter collaboration.

WOMEN IN EPILEPTOLOGY — MOVING FORWARD! WHAT IS NEEDED

Coordinators: Nancy Santilli, FAAN, RN, PNP, M.S.N.,
Karen Gale, Ph.D.

Each of us faces unique challenges in advancing our research, practice and careers. There is strong interest in supporting your efforts to make things happen. Efforts to identify the unique needs you have in this regard will be addressed in an interactive exchange. You will be asked to share your concerns and provide ideas on how we can best support your efforts. The information gathered will be shared with AES leadership.

Registration Instructions

A. General Registration

Registration fees are mandatory for attendance at any AES Annual Meeting function. This year the fee includes the Annual Course and the Investigators' Workshop sessions (**Section B**), along with the Plenary Sessions (**Section C**), the Educational Symposia (**Section E**), the other programs listed (**Section F**), and the Special Interest Groups (**Section H**). Also included is the Presidential Symposium, Poster Sessions, Platform Sessions, commercial and scientific exhibits and all meal functions provided on the days for which you are registered.

Please note: Residents, students, and fellows must provide proof of status.

• Pre-Registration Policy

Determine your fees in **Section A** of the registration form on the basis of your membership status and include the final total for all programs in the *Total Registration Fees* box provided in the column on the right side of the page. **Early registration fee deadline is Friday, October 22, 2004. Full payment, registration, change or replacement must be received in the AES office by Monday, November 8, 2004 to be considered pre-registered.** All registrations received after this date will be processed on-site at the Registration Desk.

• Non-Members

You may join AES to qualify for the member rates. A new membership application, located on page 34, must be signed by an AES active member or a director of a training program. The completed application, registration form and full payment must be received in the AES office by Monday, November 8, 2004, to qualify for the pre-registration rates.

• Special One-Day Rates

Register for only one or two days of programming at discounted rates by checking off your desired day(s) in the area provided on the registration form (**Section A2 or A3**). Then choose the session(s) you plan to attend in **Sections B, C, E, F, and/or H**.

B. Annual Course and Investigators' Workshops

Descriptions of the Annual Course and Investigators' Workshops are listed in this brochure. Check desired selections in the area provided on the registration form, **Section B**.

C. Concurrent Plenary Sessions

Descriptions of the Plenary Sessions are listed in this brochure. Please check the desired selection in the area provided on the registration form, **Section C**.

D. Special Event — Mardi Gras In December

Annual Meeting attendees and guests may purchase tickets for \$75 each. Check the area provided on the registration form, enter the total number of tickets to be purchased and total amount in **Section D**. Tickets may sell out prior to the event. Wait lists will not be available. **All tickets purchased for the Special Event are nonrefundable.**

E. Educational Symposia

These programs are supported with educational grants. You must complete Section A, General Registration, to attend any of the educational symposia. Please check the desired programs for which you would like to attend in **Section E** of

the registration form.

F. Other Programs

Other programs included with the General Registration are the Spanish Symposium, Pediatric Epilepsy Highlights Session, and Pediatric Epilepsy: State of the Art Symposium. Check the desired selections in the area provided on the registration form, **Section F**.

G. Awards Luncheon

Epilepsy Research Awards Luncheon tickets may be picked up beginning Friday, December 3, 2004 with advanced registration materials. **AES members have first priority for tickets.** Nonmembers may register on-site, pending space availability. You must complete the General Registration area in **Section A**, to attend the Awards Luncheon. See **Section G** on the registration form.

H. Special Interest Groups

Sessions are scheduled for Saturday through Tuesday. Check only one selection per session in the area provided on the registration form, **Section H**.

Additional Registration Information

Photo ID Required

Prior to receiving a badge and registration materials, the meeting attendee's fees must be paid in full and they must produce a government-issued photo identification.

1-Day Guest Pass (Exhibit Hall/Posters)

Guests of registrants and poster presenters wishing to view exhibits or poster sessions are required to purchase a single day guest pass on-site at the Registration Desk for \$75 each. *Everyone is required to have a badge!*

Name Replacements

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

Lost Badge Fee

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

Faxed Registration Forms

Your faxed registration is considered your original registration. Please do not fax **and** mail the form to AES. Due to the high volume of faxes received, we cannot confirm receipt of faxed registrations. If you must resend your registration due to transmission problems, please mark the registration as a "possible duplicate."

Registration Acknowledgments

Registrations received on or before Friday, November 8, 2004 will be acknowledged electronically.

Registration Cancellations

Refund requests due to cancellation must be received in writing before Thursday, December 2, 2004. A \$50 administration fee will be applied. No refunds will be issued after this date.

Group Registrations

Group registrations consist of 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.

Conference Attendee's Name: _____

E. Educational Symposia (Check only ONE per session)

These programs are supported with educational grants. You must complete Section A, General Registration, to attend any of the educational symposia.

Please check the programs below for which you would like to register.

1. **Friday, December 3, 2004 • 7:00 p.m.-9:30 p.m. @ Sheraton**
 - a. Allied Health Symposium: Sex, Drugs and Epilepsy
 - b. Status Epilepticus: Evidence and Beyond
 - c. Refractory Epilepsy: Epileptogenesis and the Progressive Nature of the Disease
2. **Saturday, December 4, 2004 • 8:30 a.m.-12:30 p.m.**
 - Merritt-Putnam Symposium — The Developing Epileptic Brain
3. **Saturday, December 4, 2004 • 2:30 p.m.-5:15 p.m.**
 - AES Anti-epileptic Therapy Symposium — Evidence-Based Guidelines in Anti-epileptic Therapy
4. **Saturday, December 4, 2004 • 7:00 p.m.-9:30 p.m. @ Sheraton**
 - a. Epilepsy in the Elderly — Old Concepts and New Data
 - b. Pregnancy and Epilepsy
5. **Monday, December 6, 2004 • 7:30 p.m.-10:00 p.m.**
 - a. Health-Related Outcomes in Epilepsy
 - b. Neuroprotection and Epilepsy: Recent Developments and Future Possibilities

F. Other Educational Programs

1. **Friday, December 3, 2004 • 4:00 p.m.-6:30 p.m. @ Sheraton**
 - Spanish Symposium - Epilepsy in the Elderly
2. **Monday, December 6, 2004 • 5:15 p.m.-6:45 p.m. @ Sheraton**
 - Pediatric Epilepsy Highlights Session
3. **Monday, December 6, 2004 • 7:30 p.m.-10:00 p.m. @ Sheraton**
 - Pediatric Epilepsy: State of the Art Symposium

G. Epilepsy Research Awards Luncheon (ticketed event)

Monday, December 6, 2004 • Noon-2:00 p.m. @ Sheraton

Advanced registration only for AES members and fellows. You must complete the General Registration area in Section A to attend the Awards Luncheon. Non-members may register for the luncheon on-site, pending space availability. Seating is limited.

- I will attend the complimentary Epilepsy Research Awards Luncheon.
_____ Number of tickets

Please refer to page 30 for complete registration instructions.

Registration Instructions

Three Easy Ways to Register:



Register online at www.aesnet.org

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 — 2004 Annual Meeting

342 North Main Street, West Hartford, CT 06117-2507

H. Special Interest Groups (Check only ONE per session)

1. **Saturday, December 4, 2004 • 12:45 p.m.-2:15 p.m.**
 - a. Clinical Roundtable — Hormones and Epilepsy
 - b. Controversies in Epilepsy — Epilepsy Surgery
 - c. Junior Investigator Workshop — Times Are Changing
 - d. Neuropharmacology
 - e. Neurostimulation — New Developments
 - f. Nursing — Clinical Challenges
 - g. Psychiatric Issues in Epilepsy
 - h. Translational Research
2. **Sunday, December 5, 2004 • 12:15 p.m.-1:45 p.m.**
 - a. Clinical Pharmacology
 - b. Magnetoencephalography (MEG)
 - c. Neuroendocrinology
 - d. Neuropsychology
 - e. Patient-Reported Outcomes
 - f. Sleep and Epilepsy
 - g. Temporal Lobe
 - h. The Ketogenic Diet
3. **Monday, December 6, 2004 • 7:00 a.m.-8:30 a.m.**
 - a. Basic Neuroscience
 - b. Nursing Research
4. **Monday, December 6, 2004 • 5:30 p.m.-7:00 p.m.**
 - a. EEG
 - b. Engineering and Epilepsy
 - c. Genetics
 - d. NIH Funding
 - e. Surgery
 - f. Women With Epilepsy
5. **Tuesday, December 7, 2004 • 12:30 p.m.-2:00 p.m.**
 - a. Basic Mechanisms
 - b. Children's Hour
 - c. Difficult Issues in Psychogenic Non-Epileptic Seizures (PNES) — *NEW*
 - d. Frontal Lobe Epilepsy — *NEW*
 - e. Neuroepidemiology
 - f. Neuroimaging
 - g. Women in Epileptology

— Other Program —

 - h. Practice Management Course

Demographics (Check ONE only)

How would you best characterize your predominant professional activity?

1. Adult Neurology/Epileptology
2. Basic Science/Research
3. Electroencephalography
4. Neurosurgery
5. Nursing
6. Pediatric Neurology/Epileptology
7. Pharmacology
8. Social Work/Psychology
9. Other

An Invitation

We invite you to join the American Epilepsy Society (AES), one of the oldest neurological professional organizations in the United States. The Society seeks to promote interdisciplinary communication, scientific investigation, and exchange of clinical information about epilepsy. Our membership consists of clinicians, scientists investigating basic and clinical aspects of epilepsy, and other professionals interested in seizure disorders. Members represent both pediatric and adult aspects of epilepsy.

The Society holds an annual meeting that features symposia, lectures, poster presentations, and exhibitions. This meeting attracts over 3,000 professionals and offers members a forum for communicating current findings, networking and sharing ideas in the field of epilepsy.

Mission Statement

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

Goals of the Society

- AES will be its members' primary resource for scientific and clinical education and knowledge exchange on epilepsy.
- AES will be a recognized advocate and resource for scientific research in the prevention, treatment and cure of epilepsy.
- AES will be a leader in developing resources and collaborative relationships worldwide to advance patient care, as well as to support efforts leading to the prevention and cure of epilepsy.
- AES will be a highly regarded and credible voice of professionals concerning the cause, consequences, care, and cure of epilepsy.

The Membership

Applications must be signed by the appropriate sponsor as defined in each category.

AES Membership Categories

Active Membership

Active Members are elected from professional workers in epilepsy or closely related fields who have expressed interest in the objectives and work of the Society. A prospective Active Member must be sponsored by a current Active Member of the Society. Active Membership is limited to residents of the United States of America, Canada or Mexico.

Junior Membership

Any person in training in a professional area who has an interest in the Society may apply for Junior Member status. Training status must be verified by the signature of the applicant's program director. A Junior Member must become an Active Member within six months of the completion of his/her training program.

Corresponding Membership

Corresponding Members reside outside of the United States, Canada or Mexico. They are elected from professional workers in epilepsy or closely related fields who have an active interest in the objectives and work of the American Epilepsy Society. A Corresponding Member must be sponsored by an Active Member of the Society.

Senior Membership

Members who have reached the age of 65 and who are no longer professionally active may apply to the Board for Senior Membership. Members over 65, however, even if no longer professionally active, may choose to maintain their Active Membership. Senior Members are exempt from payment of dues and may not vote or hold office.

Key Benefits of AES Membership

- **Epilepsy-specific information** on the latest pharmaceuticals, technology for treating patients, and other practice management services; and access to clinical and research databases on the AES Web site.
- **Epilepsy publications**, *Epilepsy Currents* (a literature surveillance publication); *AES News* (distributed to members three times annually); and a subscription discount to *Epilepsy Research* and *Epilepsy and Behavior*. Active Members also receive *Epilepsia*, the Society's official journal, as part of their membership fee; Junior and Corresponding Members may subscribe to *Epilepsia* at a substantial discount. (Corresponding Members who cannot subscribe to *Epilepsia* through a local ILAE Chapter may subscribe through AES.)
- **Educational programs** recognizing scientific study and accomplishment; seminars and meetings offering CME, nursing and pharmacy credits; and funding sources for member-sponsored educational programs and member research.
- **Reduced fees** for AES member programs, including the Annual Meeting.

To Apply

Please complete the membership application, including the signature of your sponsor, and mail with your membership fee to:

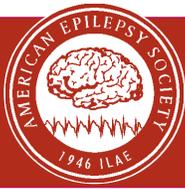
American Epilepsy Society
342 North Main Street
West Hartford, CT 06117-2507



Join Now and Save on Conference Registration

For more information or questions, please call:

Telephone: 860.586.7505
Fax: 860.586.7550
E-mail: info@aesnet.org
Web site: www.aesnet.org
Fax-on-Demand: 860.586.7575
Document #30100



AES Application for Membership

Join Now and Save on Conference Registration

Return by November 8
to receive the discounted
registration fee

Please check appropriate category:

Active—\$180 Corresponding—\$135 Corresponding with *Epilepsia*—\$210 Junior without *Epilepsia*—\$65 Junior with *Epilepsia*—\$140

General Information:

Name _____ Degree _____ Date _____

Position _____ Institution/Firm _____

Business Address _____

City _____ State _____ Province/Country _____ Zip _____

Business Phone (____) _____ Fax (____) _____ Email Address _____

If you have given your business address above, please also provide us with your home address.

Home Address _____ City/State/Zip _____

Preferred mailing address Business Home Home Phone (____) _____

Please Check One: Active Membership Corresponding Membership

(This information is necessary to complete the application process)

Date of Graduation from University/Medical School _____

Professional Appointment or Hospital Practice _____

I certify that as a Corresponding member I do not have access to a local ILAE Chapter for my *Epilepsia* subscription.

How would you best characterize your predominant professional activity?

Adult Neurology/Epileptology Neuroimaging/EEG Pediatric Neurology/Epileptology Pharmacology

Nursing Basic Science Research Neurosurgery Social Work/Psychology

Other _____

Complete for Junior Membership Category Only:

Current Position: _____

Training Program:

University _____ Training Director _____ Anticipated Date of Completion _____

Professional Education and Training:

University _____ Degree _____ Date _____

Please have your sponsor sign the following statement:

(A sponsor is an Active Member or, for Junior Member applications, the director of your training program as named above.)

I strongly endorse this individual for membership in AES.

Signature _____ Print Name _____

Form of Payment:

Please check : Check Credit Card Please circle: MasterCard/Visa/American Express

Card Number _____ Expiration Date _____

Name as it appears on card _____ Signature _____

Please Enclose the Membership Fee (U.S. Dollars Only) with Application Form and Mail to:

American Epilepsy Society, 342 North Main Street, West Hartford, CT 06117-2507 • 860.586.7505 • Fax 860.586.7550

AES 58th Annual Meeting - Hotel Reservation Form
New Orleans, Louisiana
December 3 - 7, 2004

TO MAKE YOUR RESERVATION:

BY PHONE: 800.926.3976
 310.459.0600

VIA WEB: www.aesnet.org
(click on hotel link)

BY MAIL: 2004 AES ANNUAL MEETING
 c/o VIP MEETINGS & CONVENTIONS
 1515 Palisades Drive, Suite I
 Pacific Palisades, CA 90272-2167

BY FAX: 310.459.0605

BY E-MAIL: reservations@vipmeetings.com

NUMBER IN ORDER OF PREFERENCE:

HILTON NEW ORLEANS RIVERSIDE
 2 Poydras Street
 New Orleans, LA 70140
\$239 Single/ \$259 Double
\$289 Single/ \$309 Double - Towers
 One block to Convention Center

SHERATON NEW ORLEANS
Headquarters Hotel
 500 Canal Street
 New Orleans, LA 70130
\$179 Single/ Double
\$209 Single/ Double - Club
 Ten blocks to Convention Center

W NEW ORLEANS
 333 Poydras Street
 New Orleans, LA 70130
\$199 Single/ \$229 Double - 1 King Bed
\$239 Single/ Double - 2 Double Beds
 Five blocks to Convention Center

- ◆ **Room tax rate is 13%, plus an additional occupancy tax of \$3 at the Sheraton and Hilton and \$2 at the W Hotel.**
- ◆ **Individual reservation: Deadline is November 8, 2004. Book your hotel rooms early! Rooms may sell out before this date. Reservations are honored on a first-come, first-served basis.**
- ◆ **Multiple room reservation: Deadline is October 6, 2004. You must provide names of individual attendees by this date. Any unassigned rooms after this date will be cancelled. All requests of 10 or more rooms will be forwarded to AES Executive Office for approval. Proof of meeting or exhibitor registration is required.**
- ◆ **Hospitality Suites: Subject to availability. To make your reservation and receive detailed layouts and rates, please call us at the numbers above. Hospitality activities must not conflict with official conference activities.**
- ◆ **Shuttle Service will be provided between the Convention Center and the hotels.**
- ◆ **Reservation acknowledgement will be e-mailed, faxed or mailed to the contact person right away. If you need to make any changes, please contact VIP Meetings & Conventions. Do not call the hotels directly; they will refer you back to us.**
- ◆ **Cancellations are subject to individual hotel cancellation policy. Please check the reservation acknowledgment for details.**

Company: _____

Address (for confirmations): _____

City: _____ **State:** _____ **Zip Code:** _____

Country: _____ **Contact:** _____

E-mail: _____

Phone: _____ **Fax:** _____

Room Types:

S = Single (1 person, 1 bed)
 D = Double (2 persons, 1 bed)
 D/D = 2 Beds
 S1 = 1 Bedroom Suite 
 S2 = 2 Bedroom Suite
 H = Hospitality Suite

#OF RMS	GUEST NAME	SHARE WITH	SPECIAL REQUESTS	ROOM TYPE	ARRIVE	DEPART

First night room & tax required for guarantee. Please provide a credit card OR a check. Rates are subject to tax (see above).

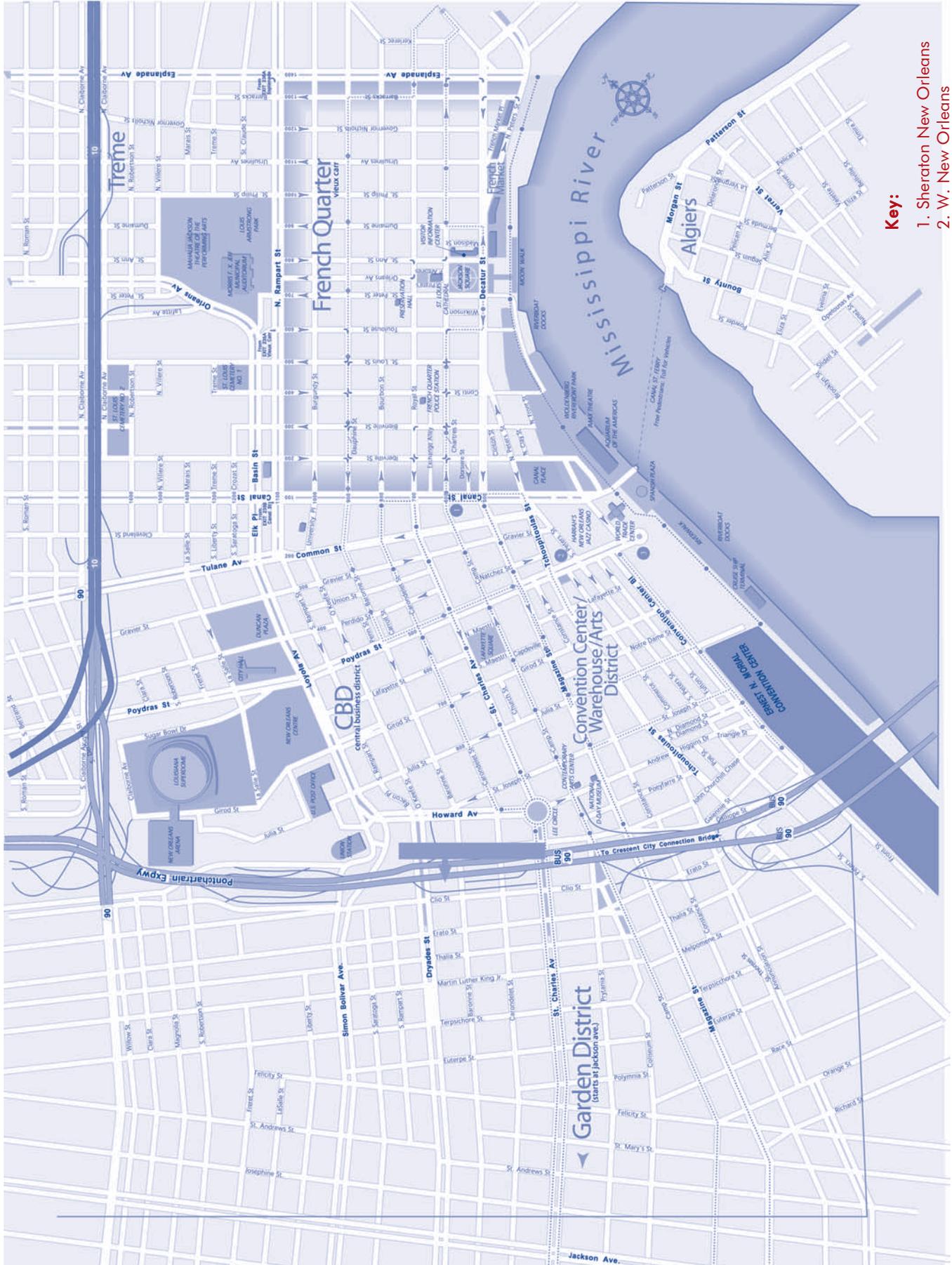
MasterCard Visa AMEX Discover Diners Cardholder: _____

Card#: _____ Exp. Date: _____ Signature: _____

Check enclosed for (please make check payable to hotel): \$ _____ (Payment in U.S. Funds)

Thank you for your reservation.

New Orleans Area Map



Key:

1. Sheraton New Orleans
2. W. New Orleans
3. Hilton New Orleans Riverside



Mardi In December Gras

Sunday, December 5, 2004
7:00 p.m.-10:00 p.m.

Have you ever experienced *Mardi Gras* in New Orleans?

If not, the American Epilepsy Society has made special arrangements for members and guests to enjoy a fun-filled, mini-celebration at Mardi Gras World, "Where Mardi Gras is Made." Surrounded by huge paper mache figures and some of the most elaborate floats, you will enjoy hors d'oeuvres and a delicious buffet supper featuring creole specialties while listening to the sounds of a Bourbon Street jazz band. A parade is even part of the evening's festivities. Bus transportation will be provided from the Sheraton, the Hilton, and the Convention Center.

To ensure that you are part of Mardi Gras, please request tickets when submitting the 2004 Annual Meeting Registration Form, Section D.

The proceeds of this evening will support the American Epilepsy Society Research Programs.

Supported in part by

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Novartis Pharmaceuticals Corporation

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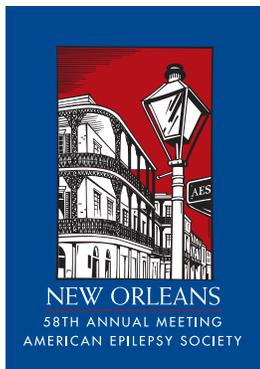
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American Epilepsy Society

342 North Main Street
West Hartford, CT 06117-2507

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AMERICAN EPILEPSY SOCIETY

is proud to recognize the following supporters of the AES Annual Meeting

As of June 22, 2004

— Benefactor —

(\$250,000+)

GlaxoSmithKline

Novartis Pharmaceuticals Corporation

Ortho-McNeil Pharmaceutical, Inc.

Pfizer Inc.

UCB Pharma, Inc.

— Leadership —

(\$100,000-249,999)

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Eisai Inc.

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— Supporter —

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Milken Family Foundation

Shire US, Inc.

Full sponsorship listing will be included on the AES Web site and Program Book

Cover ---Quark File

cover5-final.qxp

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