2009 Epilepsy Symposia

Epileptology: Comprehensive Review and Practical Exercises
June 19-21, 2009

18th International Cleveland Clinic Epilepsy Symposium:
Epilepsy Surgery – Improving Outcomes
June 21-24, 2009

www.cccfme.org/epilepsy09
Epileptology: Comprehensive Review and Practical Exercises
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18th International Cleveland Clinic Epilepsy Symposium: Epilepsy Surgery – Improving Outcomes
June 22-24, 2009

InterContinental Hotel and Bank of America Conference Center
Cleveland, OH

Description
These unique epilepsy symposia will focus on the impact of recent advances in diagnosis and management of epilepsy that serves to bridge a major gap in the medical community’s knowledge of medical and surgical treatments of epilepsy. In addition, the various levels of seizure outcomes, mortality due to epilepsy, psychiatric co-morbidities, cognitive functioning, social reintegration and economic impact of successful therapeutic interventions will be addressed.

Target Audience
The symposium is designed for adult and pediatric neurologists and epileptologists, neurosurgeons performing epilepsy surgery in adults and children, psychiatrists, clinical neuropsychologists, social workers and other expert caretakers of patients across all age groups with epilepsy.

Learning Objectives
• Discuss state-of-the-art diagnostic and treatment approaches in epilepsy
• Review the medical, surgical and psychiatric factors that affect epilepsy outcomes in children & adults
• Discuss the socio-economic impact of epilepsy control
• Outline the role of antiepileptic medications in post surgical patient management
• Apply therapeutic strategies that are most effective for specific epilepsy types
• Identify EEG patterns characteristic of the various types of epilepsy

Call for Abstracts
Residents and fellows are invited to submit abstracts describing epilepsy related research in the following categories: clinical epileptology, epilepsy surgery; epilepsy neuroimaging; neuropsychiatric aspects of epilepsy; and neuropharmacology. Five abstracts will be awarded platform presentations and the registration fees will be waived for the presenting authors.

Abstracts may be submitted to www.ccfcme.org/EpilSurg09abstracts
Deadline to submit is May 1, 2009
2009 Epilepsy Symposia Invited Faculty

Directors
Andreas Alexopoulos, MD, MPH
William Bingaman, MD
Lara Jehi, MD
Deepak Lachhwani, MD
Imad Najm, MD
Ingrid Tuxhorn, MD, ChB

Cleveland Clinic Faculty
Jocelyn Bautista, MD
Juan Bulacio, MD
Richard Burgess, MD, PhD
Jessica Chapin, PhD
Tatiana Falcone, MD
Nancy Foldvary-Schaefer, DO
Paul Ford, PhD
John Glazer, MD
Jorge Gonzalez-Martinez, MD, PhD
Ajay Gupta, MD
Denise Hagen, LISW
Stephen Hantus, MD
Jennifer Haut, PhD
Danielle Humbel, LISW
Stephen Jones, MD, PhD
Patricia Klaas, PhD
Prakash Kotagal, MD
Cynthia Kubu, PhD
John Mosher, PhD
Sean Nagel, MD
Dileep Nair, MD
Richard Naugle, PhD
Richard Prayson, MD
Paul Ruggieri, MD
Diosely Silveira, MD, PhD
Glen Stevens, DO, PhD
George Tesar, MD
Elaine Wyllie, MD

Guest Faculty
Bassel Abou-Khalil, MD
Nashville, TN
Frederick Andermann, OC, MD, FRCP
Montreal, Quebec
Nicholas Barbaro, MD
San Francisco, CA
A. James Barkovich, MD
San Francisco, CA
Christoph Baumgartner, MD
Vienna, Austria
Albert Becker, MD
Bonn, Germany
Selim Benbadis, MD
Tampa, FL
Andrew Bleasel, MBBS
Sydney, Australia
Ingmar Blümcke, MD
Erlangen, Germany
Warren Blume, MD, FRCP
London, Ontario
Blaise Bourgeois, MD
Boston, MA
Carol Camfield, MD, FRCP
Halifax, Nova Scotia
Rochelle Caplan, MD
Los Angeles, CA
Francesco Cardinale, MD
Milan, Italy
Mar Carreño, MD, PhD
Barcelona, Spain
Gregory Cascino, MD
Rochester, MN
Fernando Cendes, MD, PhD
São Paulo, Brasil
Stephan Chabardès, MD, PhD
Grenoble, France
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<td>Michael Duchowny, MD</td>
<td>Miami, FL</td>
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<td>Jonathan Edwards, MD</td>
<td>Charleston, SC</td>
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<td>Christian Elger, MD, PhD, FRCP</td>
<td>Bonn, Germany</td>
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<td>Frank Gilliam, MD, MPH</td>
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<td>Tracy Glauser, MD</td>
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<td>Sheryl Haut, MD</td>
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<td>Bruce Hermann, PhD</td>
<td>Madison, WI</td>
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<td>Dominique Hoffman, MD</td>
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<td>Hans Holthausen, MD</td>
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<td>Prasanna Jayakar, MD, PhD</td>
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<td>Andres Kanner, MD</td>
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<td>Paul Shkurovich, MD</td>
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<td>Mary Lou Smith, PhD</td>
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<td>Samuel Wiebe, MD, MSc, FRCP</td>
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<td>Peter Winkler, MD</td>
<td>Munich, Germany</td>
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Friday, June 19, 2009
8:00 Registration and Continental Breakfast
8:20 Opening Remarks and Welcome Andreas Alexopoulos and Deepak Lachhwani
8:30 Mechanisms of Epilepsy Imad Najm
9:15 Genetics of Epilepsy Jocelyn Bautista
10:00 BREAK
10:30 Principles of EEG Andrew Bleasel
11:15 Status Epilepticus Andreas Alexopoulos
12:00 LUNCH
14:00 Pediatric Interictal EEG Workshop Moderators: Ajay Gupta and Prasanna Jayakar
15:30 Adult Interictal EEG Workshop Moderators: Richard Burgess and Paul Shkurovich
17:00 BREAK
17:30 Development of Antiepileptic Drugs Tracy Glauser

Saturday, June 20, 2009
8:00 Pathology of Epilepsy Comorbidities Richard Prayson
8:45 Neuroimaging in Epilepsy A. James Barkovich
9:30 BREAK
10:00 Pediatric Epilepsy Syndromes Deepak Lachhwani
10:45 Adult Epilepsy Syndromes Dileep Nair
11:30 Psychiatric Comorbidities in Epilepsy George Tesar
12:15 LUNCH
14:00 Pediatric Ictal EEG Workshop Moderators: Hans Holthausen and Deepak Lachhwani
15:30 Adult Ictal EEG Workshop Moderators: Nancy Foldvary-Schaefer and Stephen Hantus
17:00 BREAK
17:30 Medical Management of Epilepsy (Adult) Mar Carreño

Sunday, June 21, 2009
8:00 Medical Management of Epilepsy (Pediatric) Prakash Kotagal
8:45 Surgical Management of Epilepsy William Bingaman
9:30 Non-Pharmacological and Palliative Epilepsy Therapies Bassel Abou-Khalil
10:15 BREAK
10:30 Pediatric Surgical Management Workshop Moderators: Ingrid Tuxhorn and Prasanna Jayakar
11:45 Adult Surgical Management Workshop Moderators: Imad Najm and Bassel Abou-Khalil
13:00 Adjourn

www.ccfcme.org/epilepsy09
Sunday, June 21, 2009 • Pre-Symposium Special Session
Epilepsy Surgery Outcomes: Global Experience
Outcome data presentations from around the globe and a round-table discussion

19:00-21:00 Round Table Discussion
   Moderators: Imad Najm and Lara Jehi
   Participants: National and International Faculty

Monday, June 22, 2009
Seizure Outcome Following Epilepsy Surgery

Plenary Session (I): 8:00-11:30

8:00   Opening Remarks – Lara Jehi, Ingrid Tuxhorn
8:05   Life After Surgery: Video Presentation
8:15   Epilepsy Surgery: A Cure? – Samuel Wiebe
8:35   Current Seizure Outcome Measures: Strengths and Weaknesses – Anne McIntosh
8:55   Seizure Outcome Measures: Lessons to Learn from Oncology and Other Diseases – Glen Stevens

9:15   BREAK

9:30   EEG and Seizure Outcome – Bassel Abou-Khalil
9:50   Clinical Semiology and Seizure Outcome – Americo Sakamoto
10:10  Role of MRI – Fernando Cendes
10:30  Role of PET – Matthias Koepf
10:50  Role of SPECT – Wim Van Paesschen
11:10  Role of Preexisting Neuro-psychiatric Co-morbidities – Steffi Koch-Stoecker

11:30  BREAK

11:40  The Second Dudley S. Dinner Distinguished Epileptologist’s Lecture
       Introduction – Prakash Kotagal
       Epilepsy Surgery Across the Ages: Then and Now – Frederick Andermann

12:30  LUNCH

www.ccfcme.org/epilepsy09
Plenary Session (II): Effect of Anatomy on Seizure Outcome
13:30 Seizure Outcome and its Predictors Following Temporal Lobe Surgery – Christian Elger
14:00 Seizure Outcome and its Predictors Following Extratemporal Surgery – Lara Jehi
14:30 Seizure Outcome and its Predictors Following Hemispherectomy – William Bingaman
15:00 Panel Discussion
15:15 BREAK

Plenary Session (III): Effect of Pathology on Seizure Outcome
15:30 Generalized EEG and Focal Pathology in the Pediatric Epilepsy Population – Elaine Wyllie
15:55 Cortical Dysplasia and Developmental Tumors: Special Surgical Considerations That Affect Outcome – Michael Duchowny
16:20 Sturge Weber Syndrome Revisited – Ingrid Tuxhorn
16:45 Outcomes Following Surgery for Rasmussen’s Encephalitis and Other Acquired Pathologies – Eileen Vining
17:10 Seizure Outcome Following Tuberous Sclerosis Surgery – Howard Weiner
17:35 Panel Discussion and Questions
Tuesday, June 23, 2009
Focus on Cognitive and Psychiatric Outcomes

Parallel Session (I): 8:00-10:00
Language and Memory Outcomes Following Epilepsy Surgery
Moderators: Bruce Hermann and Dileep Nair
8:00 Language and Memory Surgery Outcomes: Plasticity over the Lifespan – Bruce Hermann
8:30 Value of WADA Test and f-MRI – Kimford Meador
9:00 Role of Gamma-knife Radiosurgery – Nicholas Barbaro
9:30 Role of Invasive EEG – Dileep Nair

Parallel Session (II): 8:00-10:00
Psychiatric Outcomes and Epilepsy Surgery
Moderators: Andres Kanner and George Tesar
8:00 Overview of Psychiatric Comorbidities in Intractable Epilepsy – George Tesar
8:30 Psychiatric Complications of Epilepsy Surgery – Andres Kanner
9:00 Psychiatric Comorbidities in Children: Relevance for Surgical Treatment – Rochelle Caplan
9:30 Postoperative Non-epileptic Seizures – Selim Benbadis

Parallel Session (III): 8:00-10:00
Mortality in Epilepsy
Moderators: Lara Jehi and Stephan Schuele
8:00 Mortality in Adults with Epilepsy – TBD
8:20 Mortality in Children with Epilepsy – Carol Camfield
8:40 SUDEP: Evidence for a Non-cardiac Mechanism – Stephan Schuele
9:00 SUDEP: Evidence for a Cardiac Mechanism – TBD
9:20 Effect of Epilepsy Surgery and Seizure Control on Mortality – Lara Jehi
9:40 Panel Discussion
10:00 BREAK

Parallel Session (IV): 10:30-12:00
Social Outcomes Following Epilepsy Surgery
Moderators: Frank Gilliam and Ingrid Tuxhorn
10:30 Quality of Life After Surgery – Mary Lou Smith
10:50 Vocational Rehabilitation and Epilepsy Surgery – Ulrich Specht
11:10 Social Challenges After Surgery – Frank Gilliam
11:40 Economic Impact of Epilepsy Surgery – Sheryl Haut

Surgical Session (I): 10:30-12:00
Temporal Lobe Epilepsy Didactic Session
Moderator: Jorge Gonzalez-Martinez
10:30 Key Anatomic Points for Temporal Lobe Surgery – Steve Roper
10:50 Predicting Neurocognitive Risk – David Loring
11:10 Approach to Failed Temporal Lobe Surgery – Jorge Gonzalez-Martinez
11:30 Function in the Dominant Temporal Lobe – George Ojemann
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<tr>
<td>12:30-16:30</td>
<td>Surgical Laboratory (I): Temporal Lobe Dissection</td>
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<td>Moderators: William Bingaman and Steven Roper</td>
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<td>Faculty: Surgical Faculty</td>
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<td>Moderators: Richard Naugle and Jennifer Haut</td>
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<td>13:30-15:30</td>
<td>Workshop I B: Use of Invasive EEG Information in Predicting Seizure and Functional Outcome</td>
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<td>Moderators: Prakash Kotagal and Andreas Alexopoulos</td>
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<td>15:30</td>
<td>BREAK</td>
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<td>16:00-17:30</td>
<td>Workshop (II): Workshop II A: Managing Psychiatric Issues Following Epilepsy Surgery</td>
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<td>Moderators: George Tesar and John Glazer</td>
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<td>16:00-17:30</td>
<td>Workshop II B: Outcome of Surgically Remediable Pediatric Epilepsy Syndromes</td>
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<td>Moderators: Ingrid Tuxhorn and Ajay Gupta</td>
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<td>16:00-18:00</td>
<td>Surgical Session (II): Insular Epilepsy and Invasive Electrode Implantation Strategies</td>
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<td>Moderators: Jorge Gonzalez-Martinez and Giorgio LoRusso</td>
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<td>16:00</td>
<td>Clinical and Electrophysiological Manifestations of the Epilepsies Involving the Insular Lobe – Philippe Kahane</td>
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<td>16:30</td>
<td>Insular Anatomy and Surgical Approaches for the Insular Lobe – Stephan Chabardés</td>
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<td>17:00</td>
<td>Indications, Safety and Techniques of Invasive Monitoring for the Insula: The Stereo-Electroencephalographic Approach – Francesco Cardinale</td>
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<td>Discussion</td>
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<td>Buffet Dinner Reception at the InterContinental Hotel</td>
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<td>19:00-21:00</td>
<td>Special Plenary Session (IV): Ethics and Clinical Decision Making: How to Decide About Which Outcomes</td>
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<td>Moderator: Paul Ford</td>
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<td>Panelists: Samuel Wiebe and Frederick Andermann</td>
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<td>Case Presentations: Ajay Gupta, Cynthia Kubu, Howard Weiner</td>
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Wednesday, June 24, 2009
Pathology and Post Surgical Management Options

**Parallel Session (V): 8:00-10:00**
**Management After Surgery**
Moderators: Blaise Bourgeois and Lara Jehi

- 8:00  AED Discontinuation Following Epilepsy Surgery: Candidates and Lessons Learned From the Clinic – Christoph Baumgartner
- 8:30  AED Discontinuation Following Epilepsy Surgery: Timing and Lessons Learned From Basic Research – Blaise Bourgeois
- 9:00  When is a Postoperative Seizure Equivalent to “Epilepsy Recurrence”? – Lara Jehi
- 9:30  Role of Imaging in Evaluation of Postoperative Seizures – Paul Ruggieri
- 9:45  Role of EEG in Evaluation of Postoperative Seizures – Warren Blume

**Parallel Session (VI): 8:00-10:00**
**Effect of Pathology on Outcome**
Moderators: Andre Palmini and Richard Prayson

- 8:00  Hippocampal sclerosis – Ingmar Blümcke
- 8:25  FCD: Revising the Current Classification – Andre Palmini
- 8:50  Vascular Malformations and Tumors – Albert Becker
- 9:15  Hemispheric Pathologies – Harry Vinters
- 9:40  Outcome of FCD and HS in Children and Adults – Peter Widess-Walsh

**Surgical Session (III): 8:00-10:00**
**Extratemporal Epilepsy Surgery Techniques**
Moderators: Jeff Ojemann and Eliseu Paglioli

- 8:00  Functional Anatomy of the Frontal and Central Lobes – Guy McKhann
- 8:30  Surgical Approaches for the Frontal and Central Lobes – Eliseu Paglioli
- 9:00  Surgical Approaches for the Posterior Quadrant Epilepsies – Nitin Tandon
- 9:30  Hemispherectomy Techniques – Jorge Gonzalez-Martinez

10:00  BREAK

**Parallel Session (VII): 10:30-12:00**
**Surgical Failures and Re-operation**
Moderators: William Bingaman and Gregory Cascino

- 10:30  Causes of Surgical Failures: General Overview – Gregory Cascino
- 11:00  Timing of Failure: Insights on Mechanism? – Diosely Silveira
- 11:30  Outcome Following Re-operation – Jorge Gonzalez-Martinez
Parallel Session (VIII) 10:30-12:30
Outcomes Following Non-pharmacologic/Non-resective Interventions
Moderators: Jonathan Edwards and Prakash Kotagal
10:30   Vagus Nerve Stimulation – Jonathan Edwards
10:50   Deep Brain Stimulation – Sean Nagel
11:10   Ketogenic Diet – Eric Kossoff
11:30   Responsive Neuro-Stimulation – Martha Morrell
11:50   Panel Discussion
12:00   LUNCH

Surgical Laboratory (II): 12:30-17:00
Hemispherectomy and Extratemporal Dissection
Moderators: William Bingaman and Nitin Tandon
Faculty: Surgical Faculty

Workshop (III): 13:30-15:30
Workshop III A: Anti-epileptic Drug Management After Epilepsy Surgery
Moderators: Nancy Foldvary-Schaefer and Deepak Lachhwani
Workshop III B: The Use of MEG and fMRI in Presurgical Evaluation
Moderators: Richard Burgess and Stephen Jones

Workshop (IV): 16:00-17:30
Workshop IV A: Management of Patients with Bilateral Temporal Seizures on Surface EEG
Moderators: Norman So and Harold Morris
Workshop IV B: Management of Non-lesional Extratemporal Patients
Moderators: Imad Najm and Andrew Bleasel
17:30   ADJOURN
The Cleveland Clinic Epilepsy Surgery Symposium organizing committee invites meeting attendees to submit abstracts describing original epilepsy-related research.

The committee is also happy to announce the institution of the Cleveland Clinic Epilepsy Center Research Award. This award is offered to meeting attendees from within the United States and abroad whose abstracts provide a significant contribution to the Symposium’s general theme and the understanding of epilepsy mechanisms and treatments.

Five winners will be selected by the organizing committee. The winners will have their meeting registration fee waived and will be provided free accommodation in the meeting hotel’s headquarters, as well as the opportunity to present their data in a dedicated session and ceremony.

Our goal is to encourage young researchers in the field of epilepsy by providing them with an opportunity to showcase and discuss their results with experts in the field, and provide ground for further investigations.

All other accepted abstracts will be shown in a poster session.

Abstracts may be submitted at www.ccfcme.org/epilepsy09. Deadline for submission is May 1, 2009.
The Second Dudley S. Dinner Distinguished Epileptologist’s Lecture 2009 Honoree

Frederick Andermann, OC, MD, FRCP

Frederick Andermann, OC, MD, FRCP is a paediatric and adult epileptologist who has made significant contributions to the diagnosis and treatment of epilepsy. At the Montreal Neurological Institute and Hospital, he has developed new strategies for the management of this disorder and has advanced the understanding of other neurological conditions. He has been on the editorial boards of several international journals and has served in leadership roles with the International League Against Epilepsy. A professor at McGill University, he continues his lifelong dedication to improving the quality of life of those living with seizure disorders. Frederick Andermann received the Wilder Penfield Prize of the Prix du Québec, and is an Officer of the Order of Canada, Canada’s highest civilian order and the centrepiece of the Canadian system of honors.

Dudley Dinner, MD (1947-2007) came to the Cleveland Clinic in 1979 as the first fellow in clinical neurophysiology and epilepsy and then joined the Epilepsy Section as staff neurologist and epileptologist. He played a leading role in establishing the epilepsy surgery program, evoked potentials and intraoperative monitoring. Dr. Dinner made many valuable contributions to understanding the usefulness of the intra-carotid amytal (WADA) test and the functional anatomy of the supplementary motor area cortex. He established and directed the sleep disorders center. Dr. Dinner has published numerous scientific papers, invited reviews, editorials and chapters and also edited the book Sleep and Epilepsy. His vast knowledge and experience was a source of strength for both the epilepsy surgery and sleep programs at the Cleveland Clinic. He was very active in the American Clinical Neurophysiology Society and was Associate Editor of the Journal of Clinical Neurophysiology. His wisdom and kind, gentle spirit provided guidance and encouraged his colleagues, epilepsy fellows and neurology residents.
General Information

Location
InterContinental Hotel and Bank of America Conference Center
9801 Carnegie Ave, Cleveland, OH 44106
Telephone: 877-707-8999 or 216-707-4100

A block of rooms has been reserved at the InterContinental Hotel at the special group rate of $189 per
night plus tax. Reservations must be made by Monday, May 18, 2009 in order to qualify for this rate.

Information
For further information about this activity, contact Martha Tobin at
Local: 216-445-3449
Toll Free: 800-223-2273 x53449
Email: tobinm@ccf.org

Deadline for Registration and Cancellation
Register at www.ccfcme.org/epilepsy09. Deadline for registration for the symposium is
5:00 pm (EST), Monday, June 15, 2009. A request for a refund must be received in writing by
June 15, 2009. No refunds will be given after June 15, but registration is transferable through June
24, 2009. A $50 cancellation fee will be deducted from the refund for all cancellations.

Please Note: If you register online, you will receive an immediate registration confirmation notice
indicating that payment was processed. If the notice contains the word “error” please contact
the registration office at 216-448-0777 to confirm registration. Mailed or faxed registrations will
receive a confirmation notice by e-mail unless requested otherwise on the registration form. To
check on the status of a faxed or mailed registration, please call 216-448-0777 or send an e-mail to
cmeregistration@ccf.org.

Accreditation
For Physicians
The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation
Council for Continuing Medical Education to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates this educational activity for
a maximum of 51 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate
with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American
Osteopathic Association Council on Continuing Medical Education for Category 2 credit.

Faculty Disclosure Statement
The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply
with the current Accreditation Council for Continuing Medical Education Standards for Commercial
Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial
interest will be identified in the activity syllabus.

Americans with Disabilities Act
The Cleveland Clinic Foundation Center for Continuing Education fully intends to comply with the legal
requirements of the Americans with Disabilities Act. If you need assistance, please notify Martha Tobin
at 216-445-3449 or tobinm@ccf.org at least two weeks prior to the activity.
Go to: www.ccfcme.org/epilepsy09

Once you register online, please do not mail or fax in a registration form.

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- I require a vegetarian meal
- Confirmation Notice Preference: ☐ US Mail ☐ Fax ☐ Email

### Course Schedule

- **Epileptology Course Only**
  - June 19-21
- **Epilepsy Surgery Course Lectures Only**
  - June 22-24
- **Epileptology and Epilepsy Surgery Course Combined**
  - June 19-24
- **Epilepsy Surgery Course Lectures and Hands-On Lab for Neurosurgeons Only**
  - June 22-24

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Fee A</th>
<th>Fee B</th>
<th>Fee C</th>
<th>Fee D</th>
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<tbody>
<tr>
<td>Physicians or Neurosurgeons</td>
<td>$295.00</td>
<td>$349.00</td>
<td>$595.00</td>
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<td>Residents, Fellows, PhD, Nurses, PAs, APNs</td>
<td>$149.00</td>
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<td>Comprecare</td>
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<td>Cleveland Clinic Alumnus</td>
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<td>Neurosurgeons</td>
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<td>Neurosurgery Resident or Fellow</td>
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<td>$695.00</td>
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Fee includes: registration materials, continental breakfasts, lunches, receptions, and refreshment breaks.

Payment must be received prior to admittance to the symposium. Purchase orders are not accepted.

**Total amount enclosed or to be charged:** $ _____________________________

**PAYMENT**

Make check payable to: The Cleveland Clinic Educational Foundation

or charge the following account: ☐ Visa ☐ MasterCard ☐ American Express ☐ Discover

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</tbody>
</table>

If paying by credit card, registration should be FAXED to 216-448-0783.
If paying by check, registration should be MAILED to:

The Cleveland Clinic Educational Foundation
P.O. Box 931653 • Cleveland, OH 44193-1082