UPDATE in the Surgical Treatment of Epilepsy

Saturday, October 4, 2014
7:30 am - 2:00 pm

UT Southwestern Medical Center
Physician’s Dining Room
University Hospital-Zale Lipshy
Dallas, TX

Sponsored by:
the Departments of Neurosurgery, Neurology and Neurotherapeutics, and the Office of Continuing Medical Education

Mark Agostini, MD
Associate Professor
Department of Neurology and Neurotherapeutics
UT Southwestern Medical Center
Dallas, Texas

Dr. Agostini received his medical degree at Harvard Medical School and completed his neurology residency at Massachusetts General Hospital, a teaching affiliate of Harvard Medical School. He completed a fellowship in neurology at the UCLA School of Medicine, as well as a fellowship in clinical neurophysiology at the Instituto Scientifico San Raffaele Hospital in Milan, Italy.

Paul C. Van Ness, MD
Professor
Department of Neurology & Neurotherapeutics
UT Southwestern Medical Center
Dallas, Texas

Dr. Van Ness received his medical degree from UCLA and also completed his residency in neurology and fellowship in epilepsy and neurophysiology there. Prior to joining UT Southwestern, Dr. Van Ness worked as a staff neurologist at the Cleveland Clinic and was an Adjunct Assistant Professor of Neurology. A specialist in the diagnosis and treatment of epilepsy and seizures, he has been Director of the UT Southwestern Epilepsy Program since 1995.

Aleksander F. K. “Sasha” Dionisio, MD
Director
Epilepsy Department
Mater Hospital
Brisbane, Australia

Sasha Dionisio is from London, England. He trained in Dublin, Ireland initially and then did his residency in Australia. He is set to become director of the epilepsy unit in Brisbane’s Mater Hospital after finishing a clinical and research fellowship at the Cleveland Clinic. His research focuses on seizure networks and seizure propagation.

Bruce Mickey, MD
Professor, Vice-Chair
Department of Neurological Surgery
UT Southwestern Medical Center
Dallas, TX

Dr. Mickey is Vice Chair of the Department of Neurosurgery, where he holds the William Kemp Clark Chair in Neurological Surgery. He also serves as Director of the Annette Strauss Center for Neuro-Oncology at UT Southwestern Medical School. Dr. Mickey received his medical training and completed his neurosurgical residency at UT Southwestern, followed by a research fellowship at the Rigshospitalet in Copenhagen, Denmark. He is a native of New Orleans, Louisiana.

Bradley Lega, MD
Assistant Professor
Department of Neurological Surgery
UT Southwestern Medical Center
Dallas, Texas

Dr. Lega was recently recruited to the Department of Neurological Surgery after completing his fellowship in Epilepsy Surgery at the Cleveland Clinic. He received his medical training at Baylor College of Medicine and then completed his residency in neurosurgery at the University of Pennsylvania, where he also began studying the electrophysiology of human memory. He is originally from San Antonio.

Christopher Madden, MD
Professor
Department of Neurological Surgery
UT Southwestern Medical Center
Dallas, Texas

Dr. Madden serves as Chief of Neurosurgery for Parkland Memorial Hospital, a Level 1 Trauma Center. Dr. Madden received his medical training from the University of Texas Health Science Center at San Antonio. He performed his neurosurgery residency at Ohio State University and completed a fellowship in skull base surgery at Addenbrooke’s Hospital in Cambridge, England. He is a native of Dallas, Texas.
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Internists, APNs, RNs, EMS and Allied Health Professionals desiring This program is specifically designed for Primary Care providers, interpersonal or professional relationships in any amount occurring within the past 12 months with any entity producing, marketing, re-selling, or distributing health care goods or services consumed by, or used on patients. A primary mechanism to resolve identified conflicts of interest is a content review that is prior to the activity.

DISCUSSION OF OFF-LABEL USE
This course is meant to educate physicians with what is currently in use and what may be available in the future. There may be “off-label” use discussed in the activity. Speakers have been requested to inform the audience when off-label use is discussed.

ACREDITATION STATEMENT CREDIT DESIGNATION STATEMENTS
The University of Texas Southwestern Medical Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

CREDIT DESIGNATION STATEMENTS
The University of Texas Southwestern Medical Center designates this live activity for 4.0 AMA PRA Category 1 Credit™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The University of Texas Southwestern Medical Center designates this presentation for 1 hour in medical ethics and/or professional responsibility.

Target Audience
This program is specifically designed for Primary Care providers, Internists, APNs, RNs, EMS and Allied Health Professionals desiring advanced knowledge in the surgical treatment of epilepsy.

Purpose and Content
The audience will become aware of the fact that one-third of patients who suffer epilepsy will become medically intractable. For these patients, the range of treatment options now includes a technique for electrode implantation and seizure localization (stereotactic EEG) that is being introduced to North America after years of development in Europe. Also, the NeuroPace responsive stimulation system has recently won FDA approval. The Visualase laser system has also recently been introduced for surgical indications and is being applied for epilepsy therapy. Along with vagal nerve stimulation, these three options now complement existing surgical strategies. There are many ethical concerns that surround the use of these devices. By the end of this CME activity, the learner will be able to identify the indications for employing each of these strategies, identifying suitable patients, and be able to rehearse ethical issues surrounding their use.

Educational Objectives
Upon completion of this activity, participants should be able to link the educational objectives to Core Competencies (Medical Knowledge) and:
- Recognize the indications for employing each of these strategies for medically intractable epilepsy
- Appropriately identify suitable patients and apply stereotactic EEG techniques appropriately
- Evaluate indications for the use of NeuroPace treatment
- Differentiate when patients may benefit from laser-based methods
- Discuss appropriate usage and applications for laser-based methods
- Recognize the need to weigh both ethical criteria and economic conditions when deciding on the appropriate treatment options for patients

Program Agenda
7:00 - 7:30 am Registration & Breakfast
7:30 - 7:45 am Opening Remarks, Bruce Mickey, MD
7:45 - 8:45 am Stereo EEG Keynote, Special Guest Speaker: "Sasha" Dionisio, MD
Stereo EEG is an emerging technique for cases of epilepsy that are difficult to localize. With SEEG, patients who are poor candidates for subdural grid electrodes may have a surgical option that can identify an epileptic focus.

8:45 - 9:45 am Ethics of the Surgical Treatment of Epilepsy, Mark Agostoni, MD

9:45 - 10:00 am Break
10:00 - 10:30 am Mapping the Epileptic Network: Cortico-cortical Evoked Responses, "Sasha" Dionisio, MD
CEPs uses single pulse electrical stimulation to examine evoked responses at brain areas surrounding a seizure onset zone. New data supports this technique may provide information to augment clinical judgments about the brain areas involved in an epileptic network.

10:30 - 10:50 am Laser Therapies for Epilepsy, "Sasha" Dionisio, MD
Systems that employ precisely targeted laser catheters to ablative regions of the brain have gained traction in the treatment of epilepsy as patients look for less invasive options. How can new technology be safely and effectively employed?

10:50 - 11:10 am Robotic Assistance for Stereo EEG, Brad Lega, MD
New technology has improved the speed, safety and accuracy of stereo EEG. This lecture will discuss how the robot has changed the implantation procedure.

11:10 - 11:30 am Stereo EEG and Memory, Brad Lega, MD
Stereo EEG offers the possibility for novel research paradigms that explore connectivity between brain regions during memory encoding and retrieval. This lecture will address how such circuits are affected by seizures.

11:30am - 12:30 pm Lunch
12:30 - 1:00 pm Stereo EEG and NeuroPace, Paul Van Ness, MD
Responsive neuro stimulation is a recently approved technology for patients with few other options for seizure control. Stereo EEG can offer localization in a subset of patients in whom resection is not feasible. This lecture will discuss features of these cases.

1:00 - 2:00 pm Case Discussion

Location
UT Southwestern Medical Center Physician’s Dining Room
University Hospital-Zale Lipshy
5151 Harry Hines Boulevard
Dallas, Texas 75335

Registration
The registration fee entitles the participants to admission to the conference, all course materials, continental breakfast and lunch during the meeting. Enrollment is confirmed upon receipt of registration fee. We are unable to process any registration without payment. Physicians, Nurses and Health Care Professionals - $50
Registration is confirmed upon receipt of registration fee.

Cancellation Policy
The Office of Continuing Medical Education reserves the right to limit registration and cancel courses, no less than one week prior to the course, should circumstances deem this necessary.

Additional Information
For additional information, please call The Office of Continuing Medical Education, 214-648-3138, 1-800-688-8678, fax 214-648-2317, or email cmeregistrations@utsouthwestern.edu
To obtain information on other UT Southwestern programs, visit The Office of Continuing Medical Education’s website at: http://www.utsouthwestern.edu/cme
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Program Accessibility
We accommodate people with disabilities. Please call 214-648-3138 for more information, or mark the space indicated on the registration form. To ensure accommodation, please register as soon as possible.

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