FERNE / MEMC V 2009: Optimizing ED Neurological Emergency Patient Care
Edward P. Sloan, MD, MPH, FACEP

FERNE/MEMC Session:
Optimal Treatment of Neurological Emergencies Patients
Edward P. Sloan, MD, MPH, FACEP

2009 MEMC V Meeting
Edward P. Sloan, MD, MPH
Professor
Department of Emergency Medicine
University of Illinois at Chicago
Chicago, Illinois

Disclosures
FERNE Chairman and President
FERNE grants by industry
Participation on industry-sponsored advisory boards and as lecturer in programs supported by industry
ACEP Clinical Policy Committee
2009 MEMC Educational activities
supported by an Educational Grant from Alexza Pharmaceuticals

Edward P. Sloan, MD, MPH, FACEP

Attending Physician
Emergency Medicine
University of Illinois Hospital
Swedish American Belvidere Hospital
Chicago, IL
Overview

Mission Statement Preamble

The Foundation for the Education and Research in Neurological Emergencies is an independent not-for-profit organization committed to the following principles:

- Patients with neurologic emergencies deserve quality emergency care.
- The emergency care for neurologic emergencies can be enhanced through quality scientific research.
- Emergency medical care providers can provide optimal medical care for patients with neurological emergencies through participation in quality medical education that highlights state-of-the-art neurologic care.

Administrative

Industry Collaborators

Abbott Laboratories
Adam Williams Initiative
Alexza Pharmaceuticals
AstraZeneca
Boston Scientific
Bristol Myers Squibb
Concentric Medical
Eisai Inc.
EB Medicine
EKR Therapeutics, Inc.
EMA
Genentech
GTE
Janssen Pharmaceutical
Novo Nordisk, Inc.
The Medicines Company
Ortho-McNeil Pharmaceutical, Inc.
Parke-Davis
Pfizer
Roche Pharmaceutical
UCB Pharma, Inc.

Academic Collaborations

American Academy of Emergency Medicine (AAEM)
American Stroke Association (ASA)
American College of Emergency Physicians (ACEP)
Emergency Medicine Foundation (EMF)
Emergency Medicine Residents’ Association (EMRA)
European Society for Emergency Medicine (EuSEM)
Illinois College of Emergency Physicians (ICEP)
International Brain Injury Association (IBIA)
Mount Sinai School of Medicine, NY (MSSM)
National Institute of Neurological Disorders and Stroke (NINDS)
Resuscitative Hypothermia Academic Industry Roundtable (RHAIR)
Society for Academic Emergency Medicine (SAEM)
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Administrative
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Executive Board Members

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Assistant Professor of Medicine
Mayo Medical School
Rochester, Minnesota

Consultant
Chair, Emergency Medicine Education
Division of Emergency Medicine
Mayo Clinic, Jacksonville

Sydney Starkman, MD, FACEP
Professor of Emergency Medicine and Neurology
Director, Emergency Stroke Program
University of California Los Angeles

Extended Advisory Board

30 Members
Emergency Medicine Physicians
Provides input regarding needs and future directions
Advisory board last convened May 2004
Insights into FERNE priorities and educational needs
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Education

Case-based Learning

Uniform content
Case presentation
Key Learning Points
Introduction, discussion of the clinical disease state
Optimal ED management strategies
Patient outcome
References
Annotated bibliography
Questions and answers

Education

CME

CME available through the EB Medicine (ebmedicine.net)
Available for all FERNE educational meetings
Free for all course attendees

Emergency Medicine PRACTICE

The Swollen Extremity: A Systematic Approach To The Evaluation Of A Common Complaint

It is another busy night in the emergency department. Several patients are nailed for fainting, and one patient is wailing for the CT scan. Spartan resources are limited. Your next patient is a 78-year-old, finally recover from a cardiac with no known medical problems. The only clue that the disease comes to the emergency room. But it is not in time to be treated because the patient is on her daily regimen for insulin. The patient had not taken insulin in time to keep your busy at right heart has been properly placed, but the pain is swelling and not getting better. She also complains of a mild discomfort in her chest, which you can see elsewhere. Her blood pressure is 140/90, pulse is 120, respiratory rate is 30, temperature is 37.2°C, and her blood glucose is 102.

Emergency Medicine PRACTICE

Fever Caused By Occult Infections In The 3-To-36-Month-Old Child

It is now and the ED is still busy. You look up and see that the next patient to be seen is a 3-month-old with the chief complaint of "fever." You quickly review the past three days and note significant events such as: The baby's mother was hospitalized for the past four days with upper respiratory infection and a respiratory rash, which has since been treated with supportive care for anemia. Today, however, the mother has a fever. The patient was noted to be febrile, and you note to the nursery: "Please keep an eye on her temperature. Her usual input of 150 kcal has been noted to 105 kcal, and her output of 60 kcal has been noted to 10 kcal."

Education

Other Educational Materials

Acute Stroke Materials
Developed a Handbook and Companion CD Rom
Published Spring 2004
Collaboration included American Stroke Association and France Foundation

Education

Supplements

Planned Seizure Publication

Emergency Medicine Clinics 2010
Comprehensive state-of-the-art Seizure Data
15 Manuscripts total
Meeting Attendance and Evaluations

- 82 FERNE meetings
- ~ 460 Educational Lectures, 14 Research Lectures
- ~ 188 Speakers
- ~ 5850 physicians in attendance
- ~ 11,000 contact hours
- Evaluated as excellent or good by 97% of learners

Web-based Learning: Website

- www.ferne.org

Web-based Learning: EMedHome.com

- FERNE generated content
- CME can be obtained via EMedHome website
- Slides and audio

Web-based Learning: Video Slideshows

- Audio, video and slide content
- Able to access individual slides, specific content
- MS Producer, viewable with Windows Media Player

Education

Web-based Learning: Slide Lectures

Download or view online

Handheld Software: HandiStroke Rx

HANDi Stroke Rx Available free from www.ferne.org

- Written at Mount Sinai, New York
- Funded by a FERNE grant
- NIH Stroke Scale
- tPA Inclusion/Exclusion criteria
- tPA dosage calculator
- Continuation of care orders
Education

**Handheld Software: SeizureStat©**

SeizureStat© Available free from www.ferne.org
- Written at University of Illinois, Chicago
- Funded by FERNE
- Written materials
- Urgent SE protocol
- Information on 10 urgent meds

Research

**Directed Neurological Emergencies Research Grant**
- Up to $50,000 per Grant
- $300,000 awarded with EMF support
- Promotes new knowledge relating to the diagnosis and management of neurological emergencies in the medical community
- Directed to researchers in established emergency medicine research program
- One directed research grant per institution, per cycle, is awarded

**Directed Neurological Emergencies Research Grant**
- Christopher Barton, MD
- UCSF
- Emergency Department Assessment of Secondary Brain Insults in ICH

- Jane Brice, MD, MPH
- UCSF
- Stat 911: Stroke Assessment Tool for 911

**Directed Neurological Emergencies Research Grant**
- Andrew W. Asimos, MD
- Carolinas Medical Center
- A Prospective Validation Study of the ABCD Score and Kaiser Criteria for Short-term Stroke Risk after ED Diagnosis of TIA

- Michael Ross, MD
- William Beaumont Hospital Research Institute
- The Emergency Department Transient Ischemic Attack Accelerated Diagnostic Protocol

Research

**Seed Grants / Unsolicited Proposals**
- Up to $5,000 grants, $25,000 total
- Promote new research
- Help secure future funding
- Identify the support source
- Specific area of interest
- Available for all EM practitioners

Opportunities For Involvement

**How You Can Become Involved**
- Development of new cases
- Become a speaker
- Tell us about your preferred:
  - Symposia, content, venues
  - Learning methods
  - Research grants
  - Develop technology based applications

- Contact us: ferne@ferne.org
Today’s Meeting

- Educational grants from Alexza Pharmaceuticals
- Content developed independently
- CME by EB Medicine
- Please comment Re: format, content
- Thank you to Stephanie Ivy, Amy Moritz, Heather Prendergast, Richard Shih, Carla Sloan, EB Medicine, the AAEM Board & its members, and all of you!

Edward P. Sloan, MD, MPH, FACEP

Lecture Series

- William Brady, MD, FACEP
  - University of Virginia
  - Charlottesville, VA
- E. Bradshaw Bunney, MD, FACEP
  - University of Illinois at Chicago
  - Chicago, IL
- Chris Ghaemmaghami, MD, FACEP
  - University of Virginia
  - Charlottesville, VA
- Andy Jagoda, MD, FACEP
  - Mount Sinai School of Medicine
  - New York, NY

Edward P. Sloan, MD, MPH, FACEP

Agenda

- 3:30 – 3:40pm Welcome / Meeting Introduction
- 3:40 – 3:55 Acute Headache and Subarachnoid Hemorrhage: How Can We Optimally Treat Patients and Exclude SAH?
  - William J. Brady, MD University of Virginia
- 3:55 – 4:10 Acute Ischemic Stroke: Should We Use tPA Up to 4.5 Hours After Stroke Onset?
  - E. Bradshaw Bunney, MD University of Illinois at Chicago
- 4:10 – 4:25 Acute Intra-cerebral Hemorrhage: What is Optimal Therapy in Anticoagulated Patients?
  - Chris Ghaemmaghami, MD University of Virginia
- 4:25 – 4:45 Acute Meningitis: How to LP & Use Antibiotics, Anti-virals, & Steroids?
  - Heather Prendergast, MD University of Illinois at Chicago
- 4:45 – 5:00 Acute Seizures and Status Epilepticus: How to Optimally Diagnose & Use Anti-epileptic Therapies?
  - Edward P. Sloan, MD, MPH University of Illinois at Chicago
- 5:15 – 5:30 Acute Delirium: How Do We Differentiate Medical and Psychiatric Etiologies...and does it Matter Acutely?
  - Thomas W. Lukens, MD, PhD Cleveland Metro Health
  - Les Zun, MD, FACEP Chicago Medical School/Mt. Sinai Hospital
  - Edward P. Sloan, MD, MPH, FACEP University of Illinois at Chicago

Edward P. Sloan, MD, MPH, FACEP
Panelists

- François-Xavier Duchateau, MD, Beaujon Hospital, Clichy, France;
- Lit-Sin Quek, MD, National University Hospital, Singapore;
- Silvana Riggio, MD, Mt. Sinai School of Medicine, New York, NY;
- Les Zun, MD, Chicago Medical School/Mt. Sinai Hospital, Chicago, IL.

Questions?

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