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**FERNE/MEMC Session:**

**Optimal Treatment of  
Neurological Emergencies  
Patients**



Edward P. Sloan, MD, MPH, FACEP



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**Featuring a Panel Discussion:**

**“Care of the Ill and  
Agitated Patient”**



Edward P. Sloan, MD, MPH, FACEP



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**2009 MEMC V Meeting**



**Valencia, Spain  
16 September 2009**

Edward P. Sloan, MD, MPH, FACEP




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**Edward P. Sloan, MD, MPH**

**Professor**

**Department of Emergency Medicine  
University of Illinois at Chicago  
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**Attending Physician  
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**Chicago, IL**

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**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

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**Andy S. Jagoda, MD**  
*Professor*  
**Department of Emergency Medicine  
Mt Sinai School of Medicine  
New York, NY**

Edward P. Sloan, MD, MPH, FACEP 




**www.ferne.org**

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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:

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Overview  
**Mission Statement 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.

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**Industry Collaborators**

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

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**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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**Professor**  
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**Jonathan Edlow, MD**



**Associate Professor of Emergency Medicine**  
Beth Israel Hospital  
Boston, MA

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Administrative

### 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

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Education

## CME


CME available through the  
EB Medicine (ebmedicine.net)

Available for all FERNE educational meetings

Free for all course attendees



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**EMERGENCY MEDICINE PRACTICE**  
EBMEDICINE.NET  
AN EVIDENCE-BASED APPROACH TO EMERGENCY MEDICINE

October 2006  
Volume 8, Number 10

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

**Authors**  
Veronica Hibczuk, MD, FACEP  
Attending Physician, Emergency Medicine, Assistant Clinical Professor, Columbia University Medical Center, New York Presbyterian Hospital, New York, NY.  
Muhammad Waseem, MD  
Attending Physician, Emergency Medicine (Clinical Pediatrics), Assistant Clinical Professor, Weill Medical College of Cornell University, Lincoln Medical & Mental Health Center, Bronx, NY.  
Alexis Nguyen, MD  
Attending Physician, Emergency Medicine, Cabrini Medical Center, New York, NY.

**Peer Reviewers**  
Marie-Carmelle Ellis, MD  
Assistant Professor, Division of Emergency Medicine, Division of Critical Care, Director of Emergency Critical Care, UMDNJ-University Hospital, Scotch Plains, NJ.  
Nicholas Genes, MD, PhD

*It is another busy night in the emergency department; five admitted patients are waiting for beds and three patients are waiting for CT scans. Space and resources are limited. Your next patient is an obese, 35-year-old, female visitor from Australia with no known medical problems. She tells you that she never comes to the emergency room, but decided to come in tonight because the pain in her right leg was keeping her awake. She has had mild to moderate pain in both knees "for a long time," but for the last two days her right lower leg has been progressively painful and swollen. She has been staying off her feet and taking ibuprofen, but the pain and swelling are not getting better. She also complains of a mild discomfort in her chest which she can not characterize. Her blood pressure is 140/90 mmHg, pulse is 100, respiratory rate is 20, temperature is 37.2°C, and her*

**PEDIATRIC EMERGENCY MEDICINE PRACTICE**  
AN EVIDENCE-BASED APPROACH TO PEDIATRIC EMERGENCY MEDICINE ■ EBMEDICINE.NET

July 2007  
Volume 4, Number 7

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

**Author**  
Timothy G. Givens, MD  
Associate Professor of Emergency Medicine & Pediatrics, Vanderbilt University Medical Center, Nashville, TN

**Peer Reviewers**  
Jeffrey Averbach, MD  
Professor of Clinical Pediatrics, Albert Einstein College of Medicine, Chief, Pediatric Emergency Service, Children's Hospital at Montefiore, Bronx, NY  
Andrew DePiero, MD  
Attending Physician, Division of Emergency Medicine, Albert E. Taub Hospital for Children, Wilmington, DE  
Assistant Professor of Pediatrics, Jefferson Medical College, Philadelphia, PA  
Martin L. Herman, MD, FAAP, FACEP  
Professor of Pediatrics, Division of Critical Care and Emergency Services, UT Health Sciences School of Medicine, Cordova, TN

*It's 3 am and the ED is winding down. You look up to find that the next patient to be seen is a 9-month-old with the chief complaint of "fever." You stieg down the last of your lukewarm coffee, grab the chart, and head off to room 5. On entering, you find a teary-eyed white female infant sitting in her mother's lap, eyeing you suspiciously. Mom relates that she has been ill for the past three days with upper respiratory congestion and a nonproductive cough, which her mom has been treating with an over-the-counter decongestant. Today, however, the child was less active, drank less of her formula than usual, and felt hot to the touch, prompting Mom to check her temperature. Her initial fever of 101.2°F responded to a dose of acetaminophen, but when the mother rechecked the child's temperature several hours later, it had climbed to 103.5°F, so she called her pediatrician's answering service and was told to bring her immediately to the emergency department. The young girl has had two episodes of nonbloody, nonbilious emesis related to her cough, no diarrhea or rash, and has maintained her urinary output. She has*

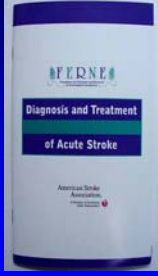
**CME Objectives**  
Upon completing this article, you should be able to:  
1. Review and critically appraise pediatric practice

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



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Education

## Supplements

### Planned Seizure Publication

*Emergency Medicine Clinics* 2010  
Comprehensive state-of-the-art Seizure Data  
15 Manuscripts total

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Education

**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

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Education

**Web-based Learning: Website**



www.ferne.org

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Education

**Web-based Learning: EMedHome.com**

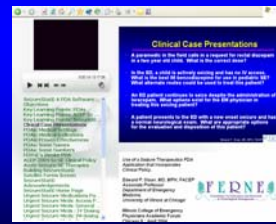
- FERNE generated content
- CME can be obtained via EMedHome website
- Slides and audio



Education

**Web-based Learning: Video Slideshows**

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



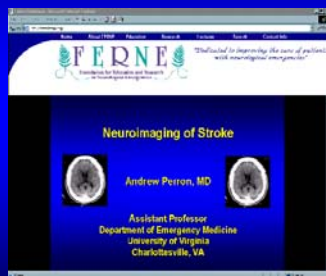
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Education

**Web-based Learning: Slide Lectures**

Download or view online



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Education

**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



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Education

### Handheld Software: SeizureStat©

SeizureStat© Available free from [www.ferne.org](http://www.ferne.org)

- Written at University of Illinois, Chicago
- Funded by FERNE
- Written materials
- Urgent SE protocol
- Information on 10 urgent meds



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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

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Research

### 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

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Research

### 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

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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

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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](mailto:ferne@ferne.org)

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**www.ferne.org**  
**Check It Out!**

## 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!

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## FERNE/MEMC Session:

# Optimal Treatment of Neurological Emergencies Patients



Edward P. Sloan, MD, MPH



## Lecture Series

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

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## Lecture Series

- Thomas Lukens, MD, PhD, FACEP  
• Cleveland Metro Health  
• Cleveland, OH
- Heather Prendergast, MD, MPH, FACEP  
• University of Illinois at Chicago  
• Chicago, IL
- Edward P. Sloan, MD, MPH, FACEP  
• University of Illinois at Chicago  
• Chicago, IL
- Les Zun, MD, FACEP  
• Chicago Medical School/Mt. Sinai Hospital  
• Chicago, IL

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## 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 Univ 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 Univ of Illinois
- Chicago
- 4:10 – 4:25 Acute Intra-cerebral Hemorrhage: What is Optimal Therapy in Anti-coagulated Patients?  
• Chris Ghaemmaghani, MD Univ of Virginia
- 4:25 – 4:45 Acute Meningitis: How to LP & Use Antibiotics, Anti-virals, & Steroids?  
• Heather Prendergast, MD Univ of Illinois
- Chicago
- 4:45 – 5:00 Acute Seizures and Status Epilepticus: How to Optimally Diagnose & Use Anti-epileptic Therapies?  
• Edward P. Sloan, MD, MPH Univ of Illinois
- Chicago
- 5:15 – 5:30 Acute Delirium: How Do We Differentiate Medical and Psychiatric Etiologies...and does it Matter Acutely?  
• Thomas Weibekens, MD, PhD, MPH, FACEP
- MetroHealth



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**Featuring a Panel Discussion:**

***“Care of the Ill and Agitated Patient”***



Edward P. Sloan, MD, MPH, FACEP




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**Panelists**

- *Francois-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.

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**Questions?**

[www.FERNE.org](http://www.FERNE.org)

[edsloan@uic.edu](mailto:edsloan@uic.edu)

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12/29/2009 5:24 PM

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