

***The Management of ED Seizure
and Status Epilepticus Patients:
The Role of 1st & 2nd Generation
Anti-epileptic Drugs in 2007***

Edward P. Sloan, MD, MPH, FACEP



**ACEP
Scientific Assembly
New Orleans, LA
October 16-18, 2006**

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***Thank you to
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FERNE
Foundation for Education and Research
in Neurological Emergencies

www.ferne.org

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The Role of 1st & 2nd Generation Anti-epileptic Drugs in 2007

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Overview

Mission Statement

- Patients with neurological emergencies deserve quality emergency care.
- Quality scientific research.
- Case-oriented, evidence-based medical education on optimal acute neurological care.
- Use of technology to break down space and time barriers.
- Advocacy.

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Education

Educational Activities to Date

- 61 Meetings
- 180 Speakers
- 389 Lectures
- 350+ Lectures posted on the FERNE website
- 13 Lectures posted on the EMedHome website
- 97% Evaluations good or excellent

- 5100+ EM professionals
- 7950+ contact hours over 9 years

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Education

Branded Product: Case-based Learning

- Case presentation
- Key Clinical Questions
- Introduction, the clinical disease state
- Optimal ED management strategies
- Patient outcome
- References, Annotated bibliography
- Key Learning Points
- Questions and answers


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Education

Web-based Learning: Video Slideshows

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



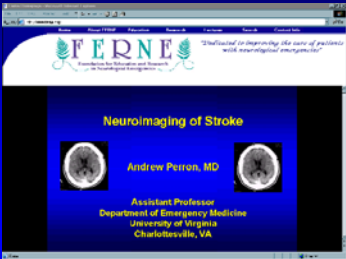
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Education

Web-based Learning: Slide Lectures

Download or view online



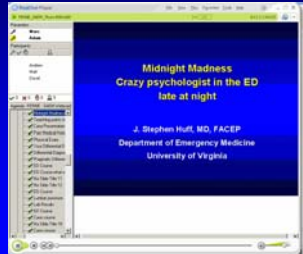
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Education

Web-based Learning: Webcasting

- Live simulcasts using Centra Symposium



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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



Palm OS Emulator

HandiStroke Rx
v1.0.0.0
Produced for FERNE (Funded by National Education Grant)
by
Michael DeCastro, MD,
Alexis Chappin, MD and
Frank Bazzilli, MD
Mount Sinai School of Medicine
Department of Emergency Medicine

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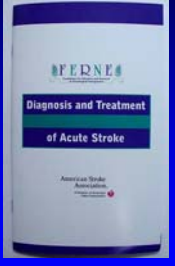


Education

Educational Materials

Acute Stroke Materials


- Developed a handbook and companion CD Rom
- Published Spring 2004
- Collaboration included American Stroke Association and France Foundation



Diagnosis and Treatment
of Acute Stroke

American Stroke Association


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Education

Web-based Learning: *EMedHome.com*

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



EMedHome CME Center

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Education

Web-based Learning: *Abstract Search*

Topic specific abstract searches



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j.a.d.e.

Automated MEDLINE Searches

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Research

Directed Neurological Emergencies Research Grant

- \$ 25-50,000 per grant
- Emergency Medicine Foundation (EMF)
- Promotes new knowledge relating to the diagnosis and acute management of neurological emergencies
- Directed to Emergency Medicine researchers

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Research

Seed Grants / Unsolicited Proposals

- Up to \$5,000 grants
- Promote new research
- Help secure future funding
- Identify the support source
- Specific area of interest
- Available for all EM practitioners


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Education

Ongoing Education: FERNE Survey

- Neurological emergencies clinical practice
- Optimal learning settings and methods
- Suggested topics and teaching strategies
- Conducted during 2006
- 400+ surveys to date
- Presentation during 2006 Research Forum
- Goal: enhanced learning and patient care
- May your preferences be known!


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The Management of ED Seizure and Status Epilepticus Patients: The Role of 1st & 2nd Generation Anti-epileptic Drugs in 2007

Edward P. Sloan, MD, MPH, FACEP 

ED Seizure and Status Epilepticus Patient Management: Seizure and SE Guidelines Regarding AED Use

Edward P. Sloan, MD, MPH, FACEP 

Andrew Jagoda, MD, FACEP


*Professor
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Key Clinical Questions

- What are the options and priorities in the treatment of ED seizure and SE patients based on the current clinical policies and guidelines?
- What do the current guidelines recommend regarding which specific 1st or 2nd generation should be used in which ED seizure and SE patients?

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Second Generation AEDs: Characteristics, Guidelines and Patient Selection in the ED

Edward P. Sloan, MD, MPH, FACEP



Yevgenya Kaydanova, MD, PhD, FAAN

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Director, EEG Lab and Epilepsy Clinic*

**Department of Neurology &
Rehabilitation Medicine
University of Illinois College of Medicine
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Key Clinical Questions

- What are the second generation AEDs, and how do they differ from one another and the first generation AEDs with respect to clinical effectiveness, safety, and ease of use?
- What priorities guide neurologists and epileptologists as they choose AEDs for use in the long-term treatment of epilepsy patients who are diagnosed in the ED?

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ED Seizure and Status Epilepticus Patient Management: A Neurologist's Perspective on Treatment Objectives & AED Use

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Gregory K. Bergey, MD, FAAN

*Professor of Neurology
Director, Johns Hopkins Epilepsy Center
Vice-Chair for Neurological Laboratories*

**Department of Neurology
Johns Hopkins University
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Baltimore, MD**

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Key Clinical Questions

- What are the priorities of the neurologist or epileptologist who treats the seizure and epilepsy patients who are seen in follow-up after hospital admission or ED discharge?
- How can the neurologists' priorities be optimally met as emergency physicians diagnose, treat, and document the care of ED seizure and epilepsy patients?

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1st and 2nd Generation Antiepileptic Drug Use in the ED: Optimal 2007 Strategies

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Key Clinical Questions

- What ED seizure and SE patient types might be optimally treated through the use of a first or second-generation AED based on the stated priorities and options?
- What recommendations can be made regarding the ED use of 1st and 2nd generation AEDs in 2007?

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Housekeeping

- Content via website
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Thank You

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- All of you

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Thank you.

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