

# 37<sup>TH</sup> ANNUAL COURSE IN ELECTRODIAGNOSTIC MEDICINE

## MARCH 3-5, 2010

### TABLE OF CONTENTS

<b>SECTION I: PROGRAM</b>	
Evaluation Information & CME Certificate	2
Program Agenda	3
Overview, Learning Objectives, Accreditation	4
Faculty Listing	5
Disclosure of Commercial Relationships	6
Acknowledgements	7
<b>SECTION II: PRESENTATIONS</b>	
Electrodiagnostic Medicine Faculty Outlines	8
*As received by 2/22/2010	

### PRESENTATION RETRIEVAL

The 37<sup>th</sup> Annual Course in Electrodiagnostic Medicine syllabus will be available on the conference website through **April 1, 2010** for download.

- After the conference, the website will be updated to reflect the final, most up-to-date presentations from the conference.
- If you have any questions please call the Office of Continuing Medical Education at 1-888-JEFF-CME.

### ONLINE EVALUATION FOR CME

**This year, all conference evaluations will be submitted electronically directly to Jefferson’s Office of CME. In order to receive a CME certificate, you must complete the online evaluation process described below.**

Thank you for attending and participating in the 37<sup>th</sup> Annual Course in Electrodiagnostic Medicine. Your evaluation will provide us with feedback to improve future conferences. Access the online evaluation forms at the following website:

<http://jeffline.jefferson.edu/jeffcme/RehabMedCME/>

### **Instructions for Completing the Evaluation**

Please follow the steps below to complete your evaluation. Evaluations for each day will be available that morning. Use the navigation buttons to move between screens and make your selections.

#### **1. Login Screen**

- Enter your username (your last name) and the last four digits of your social security number
- ➔ You may use any 4 digits THATYOU WILL REMEMBER; your credits will be linked to this number

#### **2. Personal Information Screen**

- Enter the required personal information (you will only need to do this once).

#### **3. Jefferson Screen**

- Read through the information listed.
- Click on the “Continue to HRF Conference Evaluations” link.

#### **4. Main Menu Screen**

- Select the day of the session you are evaluating.
  - Identify the time of the session you attended.
    - For concurrent sessions, select the drop-down box to find your session.
  - Click on “Evaluate Activity” to the left of the times listed.
  - After completing the evaluation, click on “Submit Evaluation”.
- Once you have completed all your evaluations, click on “Conference Overall Evaluation” to evaluate the conference as a whole.

Conference evaluations can be completed daily, or you may wait until the conference is over. You will be asked to evaluate each session you attend, and to complete an overall conference evaluation. **Note that you must evaluate at least one session in order to access the overall conference evaluation, and that you must complete the overall conference evaluation in order for your credits to accrue.**

Evaluations should be completed online no later than **April 1, 2010**.

After the conference, you may be contacted to participate in a follow-up evaluation survey designed to further assess the impact of the 37<sup>th</sup> Annual Course in Electrodiagnostic Medicine on your practice. Upon completion of this additional process, you may qualify to earn additional CME credits. Full details about this opportunity will be emailed to you after the conference.

## **CME CERTIFICATES**

CME certificates will be available online by **March 22, 2010** for those who have completed the evaluation process at <http://jeffline.jefferson.edu/jeffcme/jeffetc> **CME certificates are only available at this online site and will not be mailed.**

Jefferson Electronic Transcripts and Certificates (JeffETC) is a service of the Office of CME that allows participants to conveniently retrieve their CME credit transcripts as needed. To use this service after the conference, simply go to the above link and enter your last name as well as the last four digits of your social security number (or the four digit number previously identified). Here you will find a listing of all Jefferson-sponsored CME activities that you have participated in, and you will be able to print a transcript or individual certificate.

Please contact the Jefferson Office of CME at 1888 JEFF CME or [jeffersoncme@jefferson.edu](mailto:jeffersoncme@jefferson.edu) if you have any questions.

## **COURSE AGENDA**

**Wednesday, March 3, 2010**

7:30 am	Registration/Continental Breakfast/Exhibits	
7:55 am	Opening Comments	Gerald J. Herbison, MD
8:00-9:30 am	Wave Form: Common Spontaneous Potentials	Gerald J. Herbison, MD
9:30-10:00 am	Break & Exhibits	
10:00-11:30 am	Wave Form: Uncommon Potentials & Recruitment	Gerald J. Herbison, MD
11:30 am-12:30 pm	Lunch (on your own)	
12:30-1:30 pm	Basic Nerve Conduction	Adam L. Schreiber, DO, MA
1:30-2:30 pm	Nerve Conduction: Upper Extremities	Mitchell K. Freedman, DO
2:30-3:30 pm	Break & Exhibits	
3:00-4:00 pm	Nerve Conduction: Lower Extremities	Michael J. Mehnert, MD
4:00-5:30 pm	Ultrasound	Levon N. Nazarian, MD

**Thursday, March 4, 2010**

7:30 am	Registration/Continental Breakfast/Exhibits	
8:00-9:00 am	Anterior Horn Cell Disease	Leo F. McCluskey, MD, MBE
9:00-10:15 am	Peripheral Neuropathies with Cases	Joseph V. Campellone, MD
10:15-10:30 am	Break & Exhibits	
10:30-11:45 am	Demyelinating Neuropathies with Cases	Eduardo A. DeSousa, MD
11:45 am-1:15 pm	<b>Lunch Provided &amp; Exhibits</b>	
1:15-2:15 pm	Neuromuscular Junction Disease	Enrica L. Arnaudo, MD
2:15-3:15 pm	Radiculopathies	Guy W. Fried, MD
3:15-3:30 pm	Break & Exhibits	
3:30-4:30 pm	Case Presentations	Jay Siegfried, MD

**Friday, March 5, 2010**

7:30 am	Registration/Continental Breakfast/Exhibits	
8:00-9:30 pm	Carpal Tunnel Syndrome	Channarayapatna R. Sridhara, MD
9:30-10:30 am	Break & Exhibits	
10:30- 11:30 am	Radial Neuropathy	Faren H. Williams, MD, MS
11:30 am- 1:00 pm	Lunch (on your own)	
1:00-2:00 pm	Myopathies	Goran Rakocevic, MD
2:00-3:30 pm	Botulinum Toxin Injections & Case Presentations	Andrew Dubin, MD
3:30 pm	Adjourns	

## COURSE OVERVIEW

This annual conference is designed to update physiatrists and neurologists in electrodiagnostic medicine. Special emphasis will be placed on wave form recognition, nerve conduction studies, peripheral neuropathies, and the value of ultrasound in evaluating the site and cause of nerve compression. Clinical topics to be covered will include neuropathy, myopathy, cervical radiculopathy and carpal tunnel syndrome. This course features practical approaches to learning with case studies to assist neurologists and physiatrists in their everyday practices. This year will feature ultrasound in the diagnosis of neuromuscular disease.

## LEARNING OBJECTIVES

*At the completion of this course, participants should be able to:*

- Identify and describe spontaneous potentials seen during the needle electrodiagnostic examination.
- Evaluate and interpret frequently used clinical neurophysiologic studies in the diagnosis and treatment of radiculopathies.
- Analyze the pathology and pathophysiology of peripheral nerve injury to determine the cause and implement the appropriate course of treatment.
- Evaluate and utilize various electrodiagnostic techniques and localizing sites for botulinum toxin injections in the treatment and management of muscle spasms.
- Assess the value of utilizing ultrasound techniques in evaluating the site and cause of nerve compression.
- Determine the source of focal neuropathies including vasculitis, nerve compression, or diabetic factors, in order to identify the appropriate treatment plan.
- Interpret the basic principles of electrodiagnosis and apply these principles in the diagnosis of neuromuscular diseases.
- Differentiate the electrodiagnostic characteristics of neuropathies, myopathies and neuromuscular junction disorders.
- Assess electrodiagnostic practices in light of the information gained during the course, and identify specific strategies to update the diagnosis of neuromuscular diseases.

## ACCREDITATION

Jefferson Medical College of Thomas Jefferson University is accredited by the ACCME to provide continuing medical education for physicians.

Jefferson Medical College designates this educational activity for a maximum of **19 AMA PRA Category 1 Credits™**. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## PROGRAM FACULTY

### Course Director

**Gerald J. Herbison, MD**

Professor of Rehabilitation Medicine  
Jefferson Medical College

### Jefferson Medical College Faculty

**Enrica Arnaudo, MD**

Clinical Assistant Professor of Neurology  
Director, Neuromuscular Diseases  
Neuroscience Institute of Delaware

**Eduardo A. De Sousa, MD**

Assistant Professor of Neurology  
Director, Neuromuscular Electrodiagnostic Laboratory  
Acting Division Chief, Neuromuscular Medicine

**Mitchell K. Freedman, DO**

Clinical Assistant Professor of  
Physical Medicine and Rehabilitation  
Medical Director of  
Physical Medicine and Rehabilitation  
Rothman Institute

**Guy W. Fried, MD**

Associate Professor of Rehabilitation Medicine  
Chief Medical Officer  
Magee Rehabilitation Hospital

**Joseph V. Campellone, MD**

Associate Professor of Neurology  
UMDNJ/Robert Wood Johnson Medical School  
Director, Neurophysiology Laboratory  
Cooper University Hospital  
*Cherry Hill, New Jersey*

**Andrew Dubin, MD**

Associate Professor of  
Physical Medicine and Rehabilitation  
Albany Medical College  
*Albany, New York*

**Michael J. Mehnert, MD**

Clinical Instructor of Rehabilitation Medicine

**Levon N. Nazarian, MD**

Professor of Radiology  
Vice Chairman for Education

**Goran Rakocevic, MD**

Assistant Professor of Neurology

**Adam L. Schreiber, DO, MA, FAAPMR**

Assistant Professor of Rehabilitation Medicine

**Jay Siegfried, MD**

Assistant Clinical Professor of Rehabilitation Medicine  
Chief, Main Line Rehabilitation Services  
Main Line Health Hospitals

**Channarayapatna R. Sridhara, MD**

Clinical Professor of Rehabilitation Medicine  
Associate Chairman of  
Physical Medicine and Rehabilitation  
MossRehab

### Guest Faculty

**Leo F. McCluskey, MD, MBE**

Associate Professor of Neurology  
University of Pennsylvania School of Medicine  
*Philadelphia, Pennsylvania*

**Faren H. Williams, MD, MS**

Clinical Professor and Chief of  
Physical Medicine and Rehabilitation  
Department of Orthopedics  
University of Massachusetts School  
*Worcester, Massachusetts*

**DISCLOSURE OF SIGNIFICANT RELATIONSHIPS WITH RELEVANT COMMERCIAL COMPANIES & ORGANIZATIONS**

Jefferson Medical College endorses the Standards of the Accreditation Council for Continuing Medical Education and the Guidelines for Commercial Support. Every effort has been made to encourage faculty to disclose any commercial relationships or personal benefit with commercial companies whose products are discussed in the educational presentation. Disclosure of a relationship is not intended to suggest or condone bias in any presentations, but is made to provide participants with information that might be of potential importance to their evaluation of a presentation.

**The individual(s) listed below have declared that they have no financial arrangements or affiliations with any corporate organization offering financial support or grant monies for this CME program or with any corporate organization whose product(s) will be discussed in their presentation(s):**

Enrica Arnaudo, MD  
Joseph Campellone, MD  
Eduardo De Sousa, MD  
Guy Fried, MD  
Gerald Herbison, MD  
Leo McCluskey, MD, MBE  
Michael J. Mehnert, MD

Levon Nazarian, MD  
Goran Rakocevic, MD  
Adam Schreiber, DO  
Jay Siegfried, MD  
C.R. Sridhara, MD  
Faren Williams, MD, MS

**The following individual(s) have declared financial interest(s) and/or affiliations:**

Andrew Dubin, MD,MS  
*Grant/Research Support..... Allergan*  
Mitchell Freedman, DO  
*Product/Speakers' Bureau..... King Pharmaceutical*

**The following individual(s) have indicated that they will/may include discussion of investigational or off-label use of products.**

Eduardo De Sousa, MD  
  
Andrew Dubin, MD, MS

*We gratefully acknowledge the generosity of*  
*At time of posting*

***Special Supporter***

*Allergan*

***Exhibitors***

*Cadwell Laboratories Inc.*

*CareFusion*

*Natus Medical Inc.*