

# ULTRA EMG

AN INTERNATIONAL, HANDS-ON SEMINAR ON  
ELECTRODIAGNOSTIC MEDICINE, MUSCULOSKELETAL  
AND NEUROMUSCULAR ULTRASOUND, AND CLINICAL  
NEUROMUSCULAR PHYSIOLOGY.

FEBRUARY 23-MARCH 2, 2013  
SHERATON KAUAI  
POIPU BEACH, KAUAI, HAWAII

The Ohio State University Medical Center  
Department of Physical Medicine and Rehabilitation

## SPONSORED BY

The Ohio State University Wexner Medical Department of Physical Medicine and Rehabilitation.

## EDUCATIONAL OBJECTIVES

Upon completion of this conference the participant will be able to:

1. Determine the best tests for common clinical presentations of pain, paresthesias and/or weakness.
2. Employ fundamental and advanced techniques in the EMG examination.
3. Review the evolving computerization of EMG instrumentation.
4. Employ fundamental and advanced techniques in ultrasound examinations of nerve entrapments and common musculoskeletal conditions.
5. Evaluate and improve the quality of his/her electrodiagnostic reports.
6. Identify and understand the physiology of waveforms associated with electromyographic findings.

## EDUCATIONAL ASSESSMENT

This is a practical hands-on seminar on electrodiagnostic medicine, musculoskeletal and neuromuscular ultrasound, and clinical neuromuscular physiology limited to **medical physicians** who wish to enhance and improve their skills. Course content is developed in cooperation with the Center for Continuing Medical Education. Additional support material includes publications from faculty at The Ohio State University Medical Center and guest faculty. This course emphasizes hands-on, practical sessions and with some video presentations of electromyographic techniques, ultrasonography, and waveform analysis. Hands-on skills sessions provide opportunity for participants to interact with faculty on a daily basis.

## FACULTY



**Albert C. Clairmont, MD**, Associate Professor of Clinical Physical Medicine and Rehabilitation, The Ohio State University.



**Jonathan T. Finnoff, D.O.**, Assistant Professor of Physical Medicine and Rehabilitation, Mayo Clinic, Rochester, Minnesota



**Jon A. Jacobson, MD**, Professor and Director Division of Musculoskeletal Radiology.



**Ernest W. Johnson, MD**, Professor Emeritus of Physical Medicine and Rehabilitation, The Ohio State University.



**Jun Kimura, MD**, Professor Emeritus of Neurology, Kyoto University, Kyoto, Japan; Professor, Electromyography Laboratory, University of Iowa.



**William S. Pease, MD**, Professor of Physical Medicine and Rehabilitation, The Ohio State University.



**Erik V. Stålberg, MD**, Professor Emeritus of Neurophysiology, University Hospital, Uppsala, Sweden.



**Jeffrey A. Strakowski, MD**, Clinical Associate Professor of Physical Medicine and Rehabilitation, The Ohio State University.

## COURSE CONTENT

**Sunday, February 24:** Wave Form Recognition; Anatomy and Terminology; EDX Instrumentation; Needle Guidance and Interventional Ultrasound; Pathophysiology of Nerve Conduction; the Needle EMG Exam.

**Monday, February 25:** Challenging Cases; Other Ways to Look at the Motor Unit; Late Responses; Acute Nerve Injury; Nerve Conduction Studies for Prognosis; Ultrasound of Focal Neuropathies; Electrodiagnosis in Pediatrics; Nerve Conduction Studies for CTS; Differential Tissue with Ultrasound; Ultrasound of Peripheral Nerves.

**Tuesday, February 26:** Botulinin Toxin for Movement Disorders; ALS, Post-Polio, Multi-focal Block; Myopathies; Peripheral Neuropathies; Evaluation of Weakness in ICU; Myotonia; Musculoskeletal Ultrasound of Shoulder and Elbow; Lower Limb Nerve Conduction Studies.

**Wednesday, February 27:** Spontaneous Activity; Cervical Radiculopathy; Brachial Plexopathy and Thoracic Outlet EDX; Shoulder and Elbow Ultrasound; Ultrasound of Upper Limb Nerve Entrapments (non-CTS); Ulnar and Radial Nerve Entrapments; Ultrasound Evaluation of the Upper Limb; Single Fiber EMG; Muscle Injection for Chemodenervation.

**Thursday, February 28:** Challenging and Difficult Cases; EDX Report - Putting It Together; CTS - Anatomy and EDX; Inching Technique; Combined Sensory Index; Ultrasound Evaluation of Hand and Wrist, CTS Cases; Medical Diagnostics in the Courtroom; Ultrasound Evaluation of the Hip and Knee; Advanced NCS Techniques; Muscle Selection for Chemodenervation.

**Friday, March 1:** Ultrasound of Hip and Knee, Foot and Ankle; Evaluation of Fibular and Tibial Neuropathies; Unusual Lower Limb Neuropathies; Ultrasound Evaluation of Lower Limb Neuropathies; Nerve Conduction Studies; Writing the EDX Report.

## COURSE DIRECTORS AND PLANNERS

**Ernest W. Johnson, MD**, Professor Emeritus of Physical Medicine and Rehabilitation, The Ohio State University.

**Jeffrey Strakowski, MD**, Associate Professor of Physical Medicine and Rehabilitation, The Ohio State University.

**Jon Hollett, MS**, Program Director, Center for Continuing Medical Education, The Ohio State University.

## ACCREDITATION

The Ohio State University Medical Center is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.

The Ohio State University Medical Center designates this educational activity for a maximum of **36.0 AMA PRA Category 1 Credits™**. Each physician should claim only credit commensurate with the extent of his/her actual participation in the educational activity.

## DISCLOSURE

The Ohio State University Medical Center and the Center for Continuing Medical Education (CCME) adhere to the ACCME standards for commercial support to avoid any conflict of interest and/or commercial bias. These standards ensure the independence, objectivity, and scientific integrity of all CME sponsored educational activities. All individuals who participate in sponsored activities are expected to disclose significant relationships that may pose a conflict of interest.

Nothing in this program is intended to imply that any off-label or unapproved product use discussed is reimbursed by any government or private payor or that submission of a claim for such use is proper.

The Ohio State University Medical Center presents this activity for educational purposes only. Participants are expected to utilize their own expertise and judgement while engaged in the practice of medicine. The content of this course is provided solely by presenters who have been selected for their recognized expertise in the field of electromyography.

## GENERAL INFORMATION

### FEES:

Physician Registration, early:	\$1295.00* until December 1
Physician Registration, after December 1:	\$1595.00
Resident Registration:	\$1295.00

\*Eligibility for discounted course fee must also include reservations in the room block reserved for this course.

***A printed syllabus is not included in the course fee. All confirmed applicants will receive the syllabus material on digital media. Applicants are encouraged to bring laptops to this course and use the provided digital syllabus. Limited printed copies of the syllabus will be available for purchase on-site, however, applicants may reserve a syllabus at the time of application. An additional fee of \$35.00 will be charged.***

**Applicants may register for a private 1-hour Oral Board Exam Preparation session. Sessions are limited and are arranged to mutually suit the applicant and the faculty member(s).**  
**Registration for Oral Board Preparation Session      \$95.00**

**SYMPOSIUM SITE:** All lecture and skill sessions will convene in meeting facilities at the Sheraton Kauai Resort. Course hours are subject to modification.

**REGISTRATION:** Applicants **MUST BE MEDICAL PHYSICIANS**, and all applications **MUST** include a brief resume of EMG training and experience, and **TWO ABNORMAL EMG REPORTS** of the applicant's own examinations (obscure patients' names before submitting). Attendance is limited and attendees are expected to participate in all sessions for which they have registered. To register for this course, complete the attached registration form, or, to register online, go to <https://ccme.osu.edu> and click on CME ACTIVITIES.

Return registration form, resume, abnormal EMG reports, and course fee to:

**Continuing Medical Education, 1492 E. Broad Street, Suite 1603, Columbus, OH 43205 (Telephone: 614-257-3638; fax: 614-257-3636); or register online at <https://ccme.osu.edu/ConferenceDetail.aspx?ID=1185> (or Google "ULTRA EMG").**

## ACCOMMODATIONS

A block of hotel rooms has been reserved at the Sheraton Kauai Resort for arrival February 23 and departure March 2. Accommodations may be arranged by contacting Anne Dufort at Travel Solutions at 614-901-4100 to make, modify or cancel their hotel reservations online, as well as take advantage of any room upgrades, amenities or other services offered by the hotel. ; or through the Sheraton Kauai's dedicated booking website (<https://www.starwoodmeeting.com/StarGroupsWeb/res?id=1210023905&key=F657>). To insure availability of the group room rate reservations should be requested by January 19, 2013.

**ULTRA EMG, February 23-March 2, 2013  
REGISTRATION AND COURSE FEE PAYMENT**

**Please Print**

Name \_\_\_\_\_ Degree(s) \_\_\_\_\_ Medical Speciality \_\_\_\_\_

Last First MI

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Office Telephone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Bankcard Acct. No. \_\_\_\_\_ Exp. \_\_\_\_\_

(Visa, Mastercard, American Express or Discover Card)

**(CANCELLATION: Course cancellation up to December 21, 2012 will be refunded in full less a \$175 administrative charge. Cancellation after December 21 up to January 18, 2013 will be refunded in full less a \$650 penalty. No refund of course fee will be issued after January 18, 2013.)**

**Fees:**

Physician Fee: **\$1,295.00** until  
Up to December 1, 2011

Physician Fee: **\$1,595.00** after  
After December 1, 2011

Resident Fee: **\$1,295.00**

Oral Board Review: **\$75.00**

Reserve Syllabus: **\$30.00**

Center for Continuing Medical Education  
Department of Physical Medicine and  
Rehabilitation

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