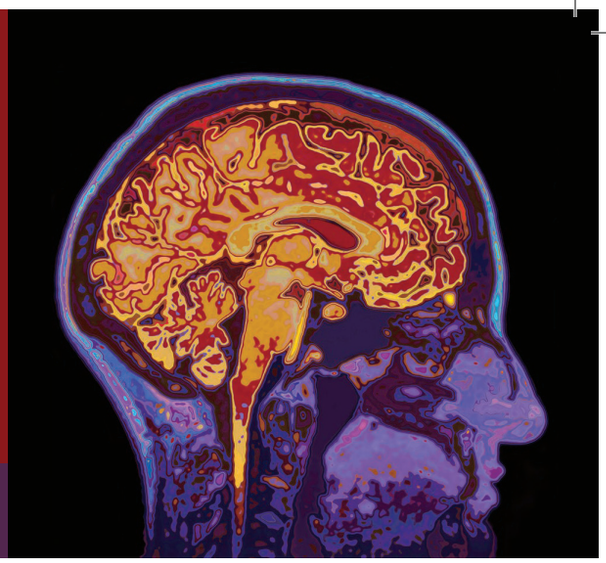
8th Annual

Breakthroughs in Neurologic Therapies:

Restoring Function to the Nervous System

A Continuing Medical Education Conference presented by the Division of Neurology and Neurosurgery at the Stanford University School of Medicine



OCTOBER 27-28, 2017 • 9:00AM – 4:00PM • THE PALACE HOTEL, SAN FRANCISCO, CA

Faculty

All faculty members and conference planners are from Stanford University School of Medicine unless otherwise noted.

COURSE CO-DIRECTORS:

Jeffrey Dunn, MD, FAAN
Clinical Professor of Neurology and Neurological Sciences
Division Chief, Clinical Neuroimmunology
Director, Neurology Clerkship

Casey Halpern, MD
Assistant Professor of Neurosurgery

STANFORD FACULTY:

Gregory Albers, MD
The Coyote Foundation Professor and Professor, by courtesy, of Neurosurgery
Director, Stanford Stroke Center

John Day, MD
Professor of Neurology, of Pediatrics (Genetics) and, by courtesy, of Pathology
Stanford University Medical Center

Robert Dodd, MD, PhD
Assistant Professor of Neurosurgery, of Radiology and, by courtesy of Otolaryngology (Head and Neck Surgery)

Robert Fisher, MD, PhD
The Maslah Saul Professor in the Department of Neurology
Director, Stanford Epilepsy Center
Professor, by courtesy, Neurosurgery

Jamshid Ghajar, MD, PhD, FACS
Clinical Professor, Neurosurgery

Jaimie M. Henderson, MD
John and Jene Blume – Robert and Ruth Halperin Professor
Professor, by courtesy, of Neurology
Stanford University Medical Center

Jeremy J. Heit, MD, PhD
Clinical Assistant Professor, Radiology

Safwan Jaradeh, MD
Professor of Neurology and Neurological Sciences
Division Chief, Autonomics

Michael Leong, MD
Clinical Associate Professor
Department of Anesthesiology, Perioperative and Pain Medicine

Scheherazade Le, MD
Clinical Assistant Professor
Department of Neurology & Neurological Sciences

Joshua Levin, MD
Clinical Assistant Professor, Orthopaedic Surgery

Melanie Lising, MD
Clinical Assistant Professor
Neurology & Neurological Sciences

Frank Longo, MD, PhD
George E. and Lucy Becker Professor
Chairman, Department of Neurology & Neurological Sciences

Josef Parvizi, MD, PhD
Professor of Neurology

Babak Razavi, MD
Clinical Assistant Professor, Neurology & Neurological Sciences

Sarada Sakamuri, MD
Clinical Assistant Professor, Neurology & Neurological Sciences
Associate Director, Neuromuscular Medicine Fellowship

Lawrence M. Shuer, MD
Professor of Neurosurgery

Gary K. Steinberg, MD, PhD
Chairman, Department of Neurosurgery
Bernard and Ronni Lacroute-William Randolph Hearst Professor of Neurosurgery and the Neurosciences

Nirali Vora, MD
Clinical Assistant Professor, Neurology & Neurological Sciences

Thomas J. Wilson, MD
Clinical Assistant Professor
Department of Neurosurgery

Laurice Yang, MD, MHA
Clinical Assistant Professor of Neurology & Neurological Sciences

FACULTY DISCLOSURE

The Stanford University School of Medicine adheres to ACCME Criteria, Standards and Policies regarding industry support of continuing medical education. Disclosure of faculty and their commercial relationships will be made prior to the activity.

COMMERCIAL SUPPORT ACKNOWLEDGEMENT

This CME activity is supported in part by educational grants. A complete list of commercial supporters will be published in the course syllabus.

Sponsored by the Stanford University School of Medicine

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Course Overview

STATEMENT OF NEED

This CME activity seeks to fulfill the educational needs of health care professionals who manage patients with neurologic diseases and disorders. This symposium will address identified clinical challenges in a wide array of areas to include brain signaling, immune-mediated neurological diseases, headache/pain, stroke, neuromuscular, multiple sclerosis, spine, peripheral nerve, movement disorders, and epilepsy. Through cutting-edge content delivered by expert faculty, practitioners will review the latest advances and best practices in the rapidly evolving field of neuroscience. Emphasis will be placed on information required to evaluate novel screening, diagnostic strategies and available therapeutic options to arrive at the most effective approach for treatment and/or referral of their patients. Lectures with question and answer sessions, and panel discussions will afford learners the opportunity to examine practice dilemmas, discuss available evidence, and apply effective case management.

LEARNING OBJECTIVES

At the conclusion of this activity, participants should be able to: Evaluate and utilize current screening, diagnosis and/or management strategies to improve the quality of care for their patients presenting with neurological diseases and disorders including (but not limited to): dementia, neuromuscular and spine disorders, immune-mediated neurological diseases, stroke, movement disorders, epilepsy, head trauma, migraine, Central Nervous System (CNS) and Peripheral Nervous System (PNS) disorders.•Incorporate new advancements and the appropriate use of available technologies into their practice for neurointerventional treatment and management of stroke.

- Evaluate and utilize current screening, diagnosis and/or management strategies to improve the quality of care for their patients presenting with neurological diseases and disorders including (but not limited to): dementia, neuromuscular and spine disorders, immune mediated neurological diseases, stroke, movement disorders, epilepesy, head trauma, migraine, Center Nervous System (CMS) and Peripheral Nervous System (PNS) disorders
- Incorporate new advancements and the appropriate use of available technologies into their practice for neuro interventional treatment and management of stroke
- Describe the latest available treatment options (both medical and surgical) for the patient with movement disorders
- Discuss the latest updates in the diagnosis and treatment of Central Nervous System (CMS) demyelinating diseases to include disease-modifying therapy options which have recently been approved
- Explain the benefits of recent advances made in the manner in which concussions and seizure disorders are classified
- Examine new findings related to the medical management of migraines and the surgical management of pain
- Appropriately determine when patients should be referred for additional diagnostic and/or treatment of neurological disorders

TARGET AUDIENCE

This international and regional conference is designed to meet the educational needs of:

- Neurology
- Neurosurgery
- Interventional Radiology
- Neuro-Oncology
- Physical Medicine and Rehabilitation
- Emergency Medicine
- Family Practice
- Internal Medicine

ACCREDITATION

The Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CREDIT DESIGNATION

The Stanford University School of Medicine designates this live activity for a maximum of **10.5** ***AMA PRA Category 1 Credits***™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The California Board of Registered Nursing recognizes that Continuing Medical Education (CME) is acceptable for meeting RN continuing education requirements as long as the course is certified for ***AMA PRA Category 1 Credit***™ (**rn.ca.gov**). Nurses will receive a Certificate of Participation following this activity that may be used for license renewal.

Please register early – space is limited

Program (Subject to change)

Friday, October 27, 2017

8:30-9:00 am *Registration & Continental Breakfast*

9:00-9:05 **Welcome and Announcements**
Stanford Neuroscience Center Intro
Frank M. Longo, MD, PhD

NOVEL SCREENING, DIAGNOSTIC STRATEGIES AND THERAPEUTIC OPTIONS BASED ON CUTTING EDGE CLINICAL RESEARCH UPDATES.

9:05-10:45 Brain Signaling
Moderator: Jeffrey Dunn, MD, FAAN

9:05-9:25 **Neurodegenerative Disease**
Frank M. Longo, MD, PhD

9:25-9:45 **Neuroimmunology: Antibodies as Biomarkers**
Jeffrey Dunn, MD, PhD

9:45-9:55 **Q&A**

9:55-10:15 **Autonomic Disorders**
Safwan Jaradeh, MD

10:15-10:35 **More Than a Headache; Concussion Subtypes**
Jamshid Ghajar, MD, PhD, FACS

10:35-10:45 **Q&A**

10:45-11:00 *Break*

11:00-12:35 pm Stroke
Moderator: Jeremy Heit, MD, PhD

11:00-11:20 **Fundamental Advances in Late Window Stroke Therapy**
Gregory Albers, MD

11:20-11:40 **Cryptogenic Stroke: What is It? What to Do With It?**
Nirali Vora, MD

11:40-12:00 pm **Neurointerventional Treatment of Ischemic and Hemorrhagic Stroke**
Jeremy Heit, MD, PhD

12:00-12:20 **Endovascular vs. Microsurgical Mangement of Stroke**
Robert Dodd, MD, PhD

12:20-12:40 **Is There a Future for Cerebrovascular Neurosurgery?**
Gary Steinberg, MD, PhD

12:40-12:55 **Q&A**

12:55-1:55 *Lunch*

1:35-3:25 pm Headache/Pain
Moderator: Michael Leong, MD

1:55-2:15 **It Takes a Village to Raze a Migraine: The Multidisciplinary Approach to Headache Management**
Niushen Zhang, MD

2:15-2:35 **The Headache Pipeline: Update on Headache Research and Emerging Technologies**
Robert Cowan, MD

2:35-2:50 **Q&A**

2:50-3:10 **Technology for Back Pain: Spinal Cord Stimulation**
Michael Leong, MD

3:10-3:30 **Lumbar Epidural Steroid Injections: The Magical Cure for Everything…Or Not.**
Joshua Levin, MD

3:30-3:45 **Q&A**

3:45-3:55 **Conclude**
Jeffrey Dunn, MD, FAAN

3:55 pm *Adjourn*

Saturday, October 28, 2017

8:30-9:00 am *Registration & Continental Breakfast*

9:00-9:05 **Welcome and Announcements**
Stanford Neuroscience Center Intro
Gary Steinberg, MD, PhD

9:05-9:50 Virtual Reality

9:05-9:45 **Stanford Neurosurgical Stimulation and Virtual Reality Center: A Glimpse into the Future**
Gary Steinberg, MD, PhD

9:45-9:50 **Q&A**

9:50-11:25 Neuromuscular/Spine/Peripheral Nerve
Moderator: John Day, MD

9:50-10:10 **A Breakthrough in Neuromuscular Disease**
John Day, MD

10:10-10:30 **The Diagnosis of Peripheral Nerve Disorders**
Sarada Sakamuri, MD

10:30-11:10 **Radiculopathy versus Peripheral Neuropathy: Evaluation, Diagnosis, and Management Options**
Thomas J. Wilson, MD

11:10-11:25 **Q&A**

11:25-12:25 pm *Lunch*

12:25-2:00 Movement Disorders
Moderator: Laurice Yang, MD, MHA

12:25-12:45 **Breakthrough Therapies in Dystonia**
Laurice Yang, MD, MHA

12:45-1:05 **Deep Brain Stimulation (DBS)**
Melanie Lising, MD

1:05-1:45 **DBS Surgery and Focused Ultrasound for Movement Disorders**
Jaimie Henderson, MD

1:45-2:00 **Q&A**

2:00-2:10 *Break*

2:10-3:45 Epilepsy
Moderator: Robert Fisher, MD, PhD

2:10-2:30 **A New Classification of Seizure Disorders**
Robert Fisher, MD, PhD

2:30-2:50 **Evaluation of Refractory Epilepsy**
Scheherazade Le, MD

2:50-3:10 **Update on Surgical Management of Epilepsy**
Lawrence Shuer, MD

3:10-3:30 **Responsive Neurostimulation for Refractory Epilepsy**
Babak Razavi, MD

3:30-3:45 **Q&A**

3:45-3:55 pm **Conclude**
Casey Halpern, MD

3:55 pm *Adjourn*

Opportunities for Q&A will be provided at the conclusion of each presentation.

Optional – Non-CME Presentation

4:10-4:30 pm **Living in the Future: Brain Stethoscope and Instant Evaluation of Patients with Altered Mental Status**
Josef Parvizi, MD

Register online at cme.stanford.edu/neuro

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cme.stanford.edu

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Course Information

REGISTRATION
Registration fee includes course materials, certificate of participation, breakfast and lunch.

Be sure to register with an email address that you check frequently. Your email address is used for critical information, including registration confirmation, evaluation, and certificate.

ATTENDEE TYPE	FEES Early Bird Rate	FEES After 9/27/17
Physicians	$525	$675
Nurses & Allied Health Professionals	$350	$425

Register online with Visa or Master Card by visiting **cme.stanford.edu/neuro**. If you prefer to pay by check or need assistance, please call **(650) 497-8554** or email **stanfordcme@stanford.edu**.

CANCELLATION POLICY
Cancellations received in writing no less than 30 days before the course will be refunded, less a 20% administrative fee. No refunds will be made on cancellations received after that date. Please send cancellation requests to **stanfordcme@stanford.edu**.

Stanford University School of Medicine reserves the right to cancel this program; in the event of cancellation, course fees will be fully refunded.

CONFERENCE LOCATION
The Palace Hotel
2 New Montgomery Street, San Francisco, CA 94105
Phone: (415) 512-1111

ROOM TYPE (10/27/17 & 10/28/17)	ROOM RATE
Run of House (Single/Double)	$325 per night*

**Plus Taxes, California Tourism Fee, and Resort Fees per night.*

HOTEL CONFERENCE PARKING
$60 Valet parking $36 Self-parking, The Hearst Garage

ACCOMMODATIONS
A block of rooms has been reserved at a reduced rate at The Palace Hotel for conference participants on a first-come, first-served basis and may sell out before September 26, 2017. After this date, reservations will be accepted on a space available basis and at regular resort rates.

Room reservations should be made directly with the Central Reservations Office at 1-800-325-3589 and as early as possible. Please identify yourself as a registered attendee of the "**Stanford Medicine, Continuing Medical Education**" to receive the group rate.

DIRECTIONS
For driving directions and maps to the The Palace Hotel, please visit **https://www.sfpalace.com/**.

CONTACT INFORMATION
For questions about the conference, please contact **Dianna Ziehm**, CME Conference Coordinator at **(650)724-7166** or **dziehm@stanford.edu**.

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