

9TH ANNUAL

Bridging Breakthroughs in Neuroscience from Bench to Bedside

October 12 – 13, 2018



Li Ka Shing Center for
Learning and Knowledge
Stanford University
Stanford, CA

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

Sponsored by the Stanford University School of Medicine



Stanford | MEDICINE

COURSE OVERVIEW

STATEMENT OF NEED

This CME activity seeks to fulfill the educational needs of healthcare professionals who manage patients with neurological diseases and disorders. This symposium will review the latest advances and best practices in the rapidly-evolving field of neuroscience by addressing clinical challenges in a variety of areas, including dementia, degenerative brain diseases, movement disorders, neuromuscular disorders, headache and pain, stroke, and neuro-oncology. Emphasis will be placed on information required to evaluate novel screening, develop diagnostic strategies, and identify the most effective therapeutic options for optimal treatment and/or referral of patients. Lectures with question-and-answer sessions or panel discussions will afford learners the opportunity to examine practice dilemmas, discuss available evidence, and apply effective case management.

TARGET AUDIENCE

This is a national program designed for physicians, nurses and allied health professionals specializing in Emergency Medicine, Family Practice, Internal Medicine, Primary Care, Neurology, Interventional Radiology, Neurosurgery, Physical Medicine and Rehabilitation, and Neuro-Oncology.

LEARNING OBJECTIVES

At the conclusion of this activity, participants should be able to:

- Review key factors important in the development and diagnosis of degenerative brain disease
- Outline current diagnostic and treatment options available for the management of appropriate patients with neuromuscular disorders
- Integrate new approaches to the prevention, diagnosis, and management of stroke into clinical decision making with patients who are at risk or have experienced stroke
- Incorporate advances in medical, radiological, and/or surgical therapy into treatment strategies for appropriate patients with brain tumors
- Summarize patient- and disease-related factors critical to the differential diagnosis of tremor

- Outline critical patient-related factors for the selection of appropriate candidates for device-assisted treatment of movement disorders
- Apply current clinical evidence when planning treatment strategies for patients with headache, back, or other types of chronic pain
- Incorporate advanced techniques into the neurological exam of appropriate patients under evaluation for neurological disorders
- Describe current clinical evidence regarding the use of neuro-stimulation in patients with refractory epilepsy

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 12 *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.

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.

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

COURSE DIRECTORS

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

Casey Halpern, MD
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STANFORD FACULTY

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Director, Stanford Stroke Center

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Director, Neuromuscular Division and Clinics

Professor of Neurology and Pediatrics, and, by courtesy, Pathology

Robert Dodd, MD, PhD
Associate Professor of Neurosurgery, of Radiology and, by courtesy, of Otolaryngology-Head and Neck Surgery

Juan C. Fernandez-Miranda, MD, FACS
Professor of Neurosurgery
Co-Director, Stanford Skull Base Surgery Program
Surgical Director, Stanford Pituitary Center
Co-Director, Stanford Surgical Neuro-Oncology Program
Director, Surgical Neuroanatomy, Fiber Tractography, and Virtual Simulation Lab

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

Carolyn Fredericks, MD
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Director, Stanford Center for Memory Disorders

Pejman Ghanouni, MD, PhD
Assistant Professor of Radiology (General Radiology) and, by courtesy, of Neurosurgery and of Urology

Jaimie M. Henderson, MD

Director, Stereotactic and Functional Neurosurgery

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Professor, by courtesy, of Neurology

Andrew Hoffman, MD
Vice Chair for Academic Affairs, Department of Medicine
Professor of Medicine (Endocrinology)

Michel Kliot, MD
Clinical Professor, Neurosurgery

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

Joshua Levin, MD
Clinical Assistant Professor, Orthopaedic Surgery and Neurosurgery

Frank M. Longo, MD, PhD
George E. and Lucy Becker Professor in Medicine, Department of Neurology and Neurological Sciences

Professor, by courtesy, of Neurosurgery

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Clinical Assistant Professor, Neurology and Neurological Sciences and Psychiatry and Behavioral Sciences—Stanford Center for Sleep Sciences

Seema Nagpal, MD
Clinical Assistant Professor of Neurology and Neurological Sciences and, of Neurosurgery

John Ratliff, MD, FACS
Professor and Vice-Chair of Neurosurgery
Co-Director of the Spine and Peripheral

Nerve Surgery Division
Sarada Sakamuri, MD
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Associate Director, Neuromuscular Medicine Fellowship

Jacinda Sampson, MD, PhD
Clinical Associate Professor of Neurology and Neurological Sciences

Yuen So, MD, PhD
Director, Neurology Clinics, Department of Neurology
Professor of Neurology

David Spiegel, MD
Associate Chair, Psychiatry and Behavioral Sciences
Jack, Samuel and Lulu Willson Professor of Psychiatry and Behavioral Sciences

Gary K. Steinberg, MD, PhD
Bernard and Ronni Lacroute-William Randolph Hearst Professor of Neurosurgery, and by courtesy, of Neurology
Chair, Department of Neurosurgery
Founder and Co-Director, Stanford Stroke Center

Nirali Vora, MD
Director, Global Health Neurology
Associate Residency Director, Adult Neurology
Clinical Assistant Professor of Neurology and Neurological Sciences

Tony Wyss-Coray, PhD
Professor of Neurology and Neurological Sciences

Thomas J. Wilson, MD
Co-Director, Center for Peripheral Nerve Surgery
Clinical Assistant Professor of Neurosurgery

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PROGRAM **Program is subject to change.*

Friday, October 12, 2018

7:30-8:30 am	Registration and Continental Breakfast
8:30-8:35	Welcome and Announcements <i>Jeffrey Dunn, MD, FAAN</i>
8:35-10:10	BRAIN PERFORMANCE <i>Moderator: Frank M. Longo, MD, PhD</i>
8:35-8:55	Imaging of Dementia <i>Michael Greicius, MD, MPH</i>
8:55-9:15	Dementia: Emerging Treatment Options <i>Frank M. Longo, MD, PhD</i>
9:15-9:35	Concussion and Brain Performance <i>Jamshid Ghajar, MD, PhD, FACS</i>
9:35-9:55	Young Blood for Old Brains <i>Tony Wyss-Coray, PhD</i>
9:55-10:10	Q&A
10:10-10:25	BREAK
10:25-12:00 pm	NEUROMUSCULAR DISEASES <i>Moderator: Michel Kliot, MD</i>
10:25-10:45	Emerging Treatment Prospects for Muscular Dystrophy <i>John Day, MD, PhD</i>
10:45-11:05	When to Order an EMG <i>Sarada Sakamuri, MD</i>
11:05-11:25	Novel Uses of Nerve Transfers <i>Thomas J. Wilson, MD</i>
11:25-11:45	Indications for Surgical Spine Treatment <i>John Ratliff, MD, FACS</i>
11:45-12:00	Q&A
12:00-1:00	LUNCH
1:00-2:35	STROKE <i>Moderator: Robert Dodd, MD, PhD</i>
1:00-1:20	Medical Review 2018 to Optimize Stroke Risk Factors <i>Nirali Vora, MD</i>
1:20-1:40	Thrombolysis and Stroke Care Update 2018 <i>Gregory Albers, MD</i>
1:40-2:00	Neurointerventional Stroke Management <i>Robert Dodd, MD, PhD</i>
2:00-2:20	Cerebrovascular Surgery and Stem Cell Transplantation <i>Gary K. Steinberg, MD, PhD</i>
2:20-2:35	Q&A
2:35-2:50	BREAK
2:50-4:25	HEADACHE AND PAIN <i>Moderator: Robert Cowan, MD, FAAN</i>
2:50-3:10	Breakthrough in Migraine Management <i>Robert Cowan, MD, FAAN</i>
3:10-3:30	Technology for Back Pain <i>Michael Leong, MD</i>
3:30-3:50	Comprehensive Spinal Pain Management <i>Joshua Levin, MD</i>
3:50-4:10	Hypnotherapy for Chronic Pain <i>David Spiegel, MD</i>
4:10-4:25	Q&A
4:25-4:30	Concluding Remarks <i>Gary K. Steinberg, MD, PhD</i>
4:30	ADJOURN

Saturday, October 13, 2018

7:30-8:30 am	Registration and Continental Breakfast
8:30-8:35	Welcome and Announcements Stanford Neuroscience Center Introduction <i>Michel Kliot, MD</i>
8:35-10:10	MOVEMENT DISORDERS <i>Moderator: Jaimie M. Henderson, MD</i>
8:35-8:55	Deep Brain Stimulation for Movement Disorders <i>Jaimie M. Henderson, MD</i>
8:55-9:15	New Insights for Deep Brain Stimulation <i>Helen Bronte-Stewart, MD, MSE, FAAN, FANA</i>
9:15-9:35	Mind-Body-Technology Connections: Functional Movement Disorders and Immersive Reality Treatments <i>Kim Bullock, MD</i>
9:35-9:55	Focused Ultrasound Treatment for Movement Disorders <i>Pejman Ghanouni, MD, PhD</i>
9:55-10:10	Q&A
10:10-10:25	BREAK
10:25-12:00 pm	NEURO-ONCOLOGY <i>Moderator: Juan C. Fernandez-Miranda, MD, FACS</i>
10:25-10:45	New Developments in Cushing's Disease <i>Andrew Hoffman, MD</i>
10:45-11:05	Advances in Chemotherapeutics for Brain Tumors <i>Seema Nagpal, MD</i>
11:05-11:25	Radiosurgical Treatment of Adult Brain Tumors <i>Steven D. Chang, MD</i>
11:25-11:45	Endoscopic Endonasal Surgery for Skull Base Tumors: From Lab to OR <i>Juan C. Fernandez-Miranda, MD, FACS</i>
11:45-12:00	Q&A
12:00-12:15	BREAK: Get lunch for Breakout Session
12:15-1:15	LUNCH BREAKOUT SESSION: Advanced Techniques of the Neurological Exam <i>Jeffrey Dunn, MD, FAAN</i> <i>Carolyn Fredericks, MD</i> <i>Michel Kliot, MD</i> <i>Yuen So, MD</i>
1:15-2:50	EPILEPSY/ALTERED MENTAL STATUS/WRAP UP <i>Moderator: Robert Fisher, MD, PhD</i>
1:15-1:35	Assessing the Autonomic Nervous System <i>Mitchell Miglis, MD</i>
1:35-1:55	Polynucleotide Repeat Disorders: the Dark Matter of the Neurogenetic Universe <i>Jacinda Sampson, MD, PhD</i>
1:55-2:15	Epilepsy and Neurostimulation Update 2018 <i>Robert Fisher, MD, PhD</i>
2:15-2:35	CNS Demyelinating Disease and Biomarkers <i>Jeffrey Dunn, MD, FAAN</i>
2:35-2:50	Q&A
2:50-3:00	Closing Remarks <i>Frank M. Longo, MD, PhD</i>
3:00	ADJOURN

**Opportunities for Q&A will be provided at the conclusion of each program section.*

To register and pay online, visit <http://cme.stanford.edu/neuro>

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REGISTRATION

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

ATTENDEE TYPE	FEES	
	Early Bird Rate	After 9/12/18
Physicians	\$525	\$675
Nurses and 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. 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.

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
Li Ka Shing Center for Learning and Knowledge
291 Campus Drive, Stanford, CA
(650) 725-6884

ACCOMMODATIONS

Nearby Hotels:

- Sheraton Palo Alto Hotel (650) 328-2800
- The Westin Palo Alto (650) 321-4422

Please contact the hotel directly to secure a reservation.

Additional hotel options:

<http://visit.stanford.edu/plan/lodging>.

VISITING STANFORD UNIVERSITY

To learn more about traveling to Stanford University, please browse visit.stanford.edu.

CONTACT INFORMATION

For questions about the symposium, please contact Mary Sisney, CME Conference Coordinator at (650) 724-7166 or msisney@stanford.edu.

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