



**HARVARD**  
MEDICAL SCHOOL



Beth Israel Deaconess  
Medical Center

# Movement Disorders: Current Concepts and Practice

November 17-18, 2017

Hotel Commonwealth  
Boston, Massachusetts

## OFFERED BY

Beth Israel Deaconess Medical Center, Department of Neurology

## COURSE DIRECTORS

Ludy Shih, MD, MMSc • Daniel Tarsy, MD



International Parkinson and  
Movement Disorder Society



**NATIONAL PARKINSON**  
FOUNDATION  
A division of the Parkinson's Foundation

**COURSE DESCRIPTION:** The goal of this course is to improve the ability of physicians in primary care, neurology, and psychiatry to recognize clinical features of common and uncommon movement disorders, use testing to aid diagnosis, and manage complications of both disease and treatment. The evaluation and management of movement disorders depends upon targeted historical assessment and physical examination of the patient. Conditions such as essential tremor and Parkinson's disease are common and can produce significant disability and disease burden on patients and their caregivers. Though Parkinson's disease and essential tremor are two well-known disorders commonly encountered by the general practitioner and neurologist, a considerable percentage of cases are misdiagnosed. In addition, other highly treatable disorders such as drug-induced movement disorders, dystonia, and tics can be difficult to recognize which can pose an obstacle to initiating proper treatment. Finally, there have been considerable advances in our understanding of certain complex movement disorders such as Parkinson's disease. We will also focus attention on non-motor aspects of Parkinson's disease which are increasingly being recognized as important determinants of quality of life. The course will cover current concepts on pathophysiology of the various movement disorders, evidence-based evaluation and treatment recommendations, clinical practice guidelines as well as experience-based recommendations. Finally, the course will culminate with interactive discussion of video-based case examples of movement disorders.

**LEARNING OBJECTIVES:** Upon completion of this activity, participants will be able to:

- Evaluate and diagnose movement disorders, such as Parkinson's disease, Huntington's disease, dystonia, tremor, myoclonus, tics, gait disturbances, chorea, tardive dyskinesia, and other disorders of the basal ganglia, in different settings (emergency, inpatient, and outpatient).
- Summarize treatment options and considerations in the management of movement disorders.
- Integrate physical examination techniques into practice to aid in the diagnosis of a movement disorder.
- Recognize pitfalls in making an erroneous diagnosis in Parkinson's disease, tremor or dystonia.
- Describe the pharmacology and side effects of commonly used medications for treatment of various movement disorders.
- Describe the role of dopamine blockers in disease pathophysiology and management of tardive dyskinesia and drug-induced parkinsonism.
- Summarize diagnostic criteria and genetic counseling principles necessary for evaluating patients with suspected hereditary chorea or ataxia.
- Summarize a clinical evaluation method for gait disorders as well as diagnostic "red flags" that aid in the diagnosis of atypical parkinsonism.
- Identify relevant components of the basic anatomy and pathophysiology of the basal ganglia as it pertains to movement disorders.
- Assess potential therapeutic uses of botulinum toxin injections for dystonia, hemifacial spasm, and related disorders.
- Discuss patient factors in the screening of candidates for deep brain stimulation.
- Identify relevant issues regarding pre-operative evaluation and post-operative care for patients receiving deep brain stimulation.
- Describe physical examination techniques and history taking skills in making the diagnosis of a psychogenic movement disorder.
- Describe common non-motor aspects of Parkinson's disease, including mood disorders and cognitive impairment, and summarize treatment options and best practices.

### MOVEMENT DISORDERS VIDEO CASE ROUNDS

The course features video case rounds during which participants will be encouraged to submit patient videos for case discussion. Participants should email video cases and a brief case description to Ludy Shih, MD, at [lshih@bidmc.harvard.edu](mailto:lshih@bidmc.harvard.edu) for consideration. We ask that participants attest that they have signed consent of the patient to release his or her video to be shown for educational purposes. The deadline for video submissions is **October 31, 2017**. Participants will receive confirmation that their video case will be discussed two (2) weeks before the start of the course.

**TARGET AUDIENCE:** Primary Care Physicians, Specialty Physicians, Psychologists, Physician Assistants, Nurses, Nurse Practitioners  
Areas of specialized medicine in: Geriatrics, Internal Medicine, Physical Medicine & Rehabilitation

**ACCREDITATION:** The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Harvard Medical School designates this live activity for a maximum of 14.75 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Royal College of Physicians and Surgeons of Canada recognizes conferences and workshops held outside of Canada that are developed by a university, academy, hospital, specialty society or college as accredited group learning activities.

Through an agreement between the American Medical Association and the European Union of Medical Specialists, physicians may convert *AMA PRA Category 1 Credit*<sup>™</sup> to an equivalent number of European CME Credits<sup>®</sup> (ECMECs<sup>®</sup>). Information on the process of converting *AMA PRA Category 1 Credits*<sup>™</sup> to ECMECs<sup>®</sup> can be found at: [www.eaccme.eu](http://www.eaccme.eu).

**ABMS/ACGME COMPETENCIES:** This course is designed to meet one or more of the following American Board of Medical Specialties and Accreditation Council of Graduate Medical Education competencies: Medical Knowledge, Patient care and Procedural Skills.

**IOM COMPETENCIES:** This course is designed to meet one or more of the following Institute of Medicine competencies: Employ Evidence Based Practice.

**REGISTRATION INFORMATION\*:** Physician: \$550.00. Resident/Fellow/Student: \$350.00. Allied Health Professional/Other: \$450.00.

Early Registration Fee: Physician: \$500.00 Resident/Fellow/Student: \$300.00. Allied Health Professional/Other: \$400.00

Discount available for employees of officially designated Federally Qualified Health Centers.

A printed syllabus will be included as part of tuition cost. \$20 for USB (Electronic Syllabus)

Early Registration Fee may be used if registered by **Friday, September 1, 2017**

Registration by credit card (VISA, MasterCard or American Express) or check can be made through Harvard Medical School's secure online registration system at <https://cmeregistration.hms.harvard.edu/movementdisorders2017>. Registration by check (draft on a United States bank), please make payable to Harvard Medical School. Learners who choose to pay by check will be prompted to download an online form to send in with a payment. Telephone or fax registration is not accepted. Registration with cash payment is not permitted. Upon receipt of your paid registration, you will receive an email confirmation. Be sure to include an email address that you check frequently. Your email address is used for critical information including registration confirmation, evaluation and certificate.

**For more information and registration: <https://cmeregistration.hms.harvard.edu/movementdisorders2017>**

# Movement Disorders: Current Concepts and Practice

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**INQUIRIES:** Call (617) 384-8600, Mon-Fri, 9am to 5pm (ET) or by email at: [ceprograms@hms.harvard.edu](mailto:ceprograms@hms.harvard.edu).

**REFUND POLICY:** Refunds, less an administrative fee of \$75, will be issued for all cancellations received two weeks prior to the start of the course. Refund requests must be received email. No refund will be issued should cancellation occur less than two weeks prior. "No shows" are subject to the full course fee and no refunds will be issued once the conference has started.

**COURSE LOCATION:** All sessions will be held at Hotel Commonwealth, 500 Commonwealth Avenue, Boston, Massachusetts 02215. Guests are welcome to call 1-866-784-4000, or use the booking link to book their rooms. Discounted room rate of \$289 plus applicable taxes must be booked by Tuesday, October 17, 2017. Booking link for group reservations: <http://bookings.ihotelier.com/bookings.jsp?groupID=1741878&hotelID=15517>

**ACCOMMODATIONS/TRAVEL:** Please do not purchase nonrefundable airline ticket(s) until you have received an email from our office confirming your paid registration.

**DISCLOSURE POLICY:** Harvard Medical School (HMS) adheres to all ACCME Essential Areas, Standards, and Policies. It is HMS's policy that those who have influenced the content of a CME activity (e.g. planners, faculty, authors, reviewers and others) disclose all relevant financial relationships with commercial entities so that HMS may identify and resolve any conflicts of interest prior to the activity. These disclosures will be provided in the activity materials along with disclosure of any commercial support received for the activity. Additionally, faculty members have been instructed to disclose any limitations of data and unlabeled or investigational uses of products during their presentations.

## Program Schedule

FRIDAY, NOVEMBER 17, 2017		
7:00–8:00 am	<b>Registration and breakfast</b>	
8:00–8:15 am	Welcome, Introductions and CME Instructions	Ludy Shih, MD
8:15–9:00 am	Overview of Movement Disorders	Ludy Shih, MD
9:00–9:45 am	Diagnosis of Parkinsonism and Early Treatment	David K. Simon, MD, PhD
9:45–10:00 am	<b>Break</b>	
10:00–11:00 am	Dystonia: Phenomenology, Classification and Treatment	Daniel Tarsy, MD
11:00–11:45 am	Tourette Syndrome and Restless Legs	David K. Simon, MD, PhD
11:45 am–12:45 pm	<b>Lunch</b>	
12:45–1:45 pm	Tardive Dyskinesia and Other Drug-Induced Movement Disorders	Daniel Tarsy, MD
1:45–2:30 pm	Tremor and Myoclonus	Ludy Shih, MD
2:30–2:45 pm	<b>Break</b>	
2:45–3:15 pm	Clinical Approach to Gait Disorders	Veronique Vanderhorst, MD, PhD
3:15–3:45 pm	Atypical Parkinsonism	Veronique Vanderhorst, MD, PhD
3:45–4:45 pm	<b>MOVEMENT DISORDERS VIDEO CASE ROUNDS</b> <i>(See reverse side for information if you would like to submit a case for review)</i>	David Simon, MD, PhD Veronique Vanderhorst, MD, PhD
SATURDAY, NOVEMBER 18, 2017		
8:00–8:30 am	<b>Breakfast</b>	
8:30–9:15 am	Chorea and Huntington's Disease	Samuel Frank, MD
9:15–9:45 am	Clinical Evaluation of Ataxia Syndromes	Penny Greenstein, MBBCh
9:45–10:30 am	Management of Advanced Parkinsonism	Daniel Tarsy, MD
10:30–10:45 am	<b>Break</b>	
10:45–11:30 am	Nonmotor Aspects of Parkinsonism	Ludy Shih, MD
11:30 am–12:00 pm	Introduction to Deep Brain Stimulation: Patient Selection	Ludy Shih, MD
12:00–12:45 pm	DBS Surgery: Procedure and Outcomes	Ron Alterman, MD
12:45–1:30 pm	<b>Lunch</b>	
1:30–2:15 pm	Cognitive and Psychiatric Aspects of Parkinson's Disease	Daniel Press, MD
2:15–3:00 pm	Noninvasive Stimulation for Movement Disorders	Michael Fox, MD, PhD
3:00–3:45 pm	Functional Movement Disorders	David Perez, MD
3:45–4:45 pm	<b>Movement Disorders Video Case Rounds</b> <i>(See reverse side for information if you would like to submit a case for review)</i>	Ludy Shih, MD, Daniel Tarsy, MD
4:45–5:00 pm	Concluding Remarks	Ludy Shih, MD

\*Please Note: Program changes/substitutions may be made without notice.

## Faculty

### Ron Alterman, MD

Chief, Division of Neurosurgery, Beth Israel Deaconess Medical Center;  
Professor of Neurosurgery, Harvard Medical School

### Michael Fox, MD, PhD

Assistant Professor of Neurology, Harvard Medical School;  
Director, Laboratory for Brain Network Imaging and Modulation;  
Associate Director, Berenson-Allen Center for Noninvasive Brain Stimulation; Associate Director, Deep Brain Stimulation Program  
Beth Israel Deaconess Medical Center

### Samuel Frank, MD

Associate Professor of Neurology, Harvard Medical School  
Director, Huntington Disease Society of America Center of Excellence

### Patricia Greenstein, MB.BCh

Assistant Professor of Neurology, Harvard Medical School;  
Clinical Director, Division of Neurogenetics; Associate Residency  
Program Director BIDMC Neurology Residency Program

### Ludy Shih, MD

Assistant Professor of Neurology, Harvard Medical School;  
Director, Deep Brain Stimulation Program

### David K. Simon, MD, PhD

Professor of Neurology, Harvard Medical School;  
Chief, Division of Movement Disorders;  
Director, National Parkinson Foundation Center of Excellence  
at Beth Israel Deaconess Medical Center.

### Daniel Tarsy, MD

Professor in Neurology, Harvard Medical School;  
Past Director, Parkinson's Disease and Movement Disorders Center  
at Beth Israel Deaconess Medical Center

### Veronique Vanderhorst, MD, PhD

Assistant Professor of Neurology, Harvard Medical School

### David L. Perez, MD

Director, MGH Functional Neurological Disorders Clinic;  
Instructor in Neurology, Harvard Medical School;  
Assistant in Neurology and Psychiatry,  
Massachusetts General Hospital

### Daniel Press, MD

Associate Professor of Neurology, Harvard Medical School;  
Clinical Director, Cognitive Neurology Unit,  
Beth Israel Deaconess Medical Center

**For more information and registration:** <https://cmeregistration.hms.harvard.edu/movementdisorders2017>