Annual YAHR LECTURE and Celebration of the Career of BERNARD COHEN, MD

THE VESTIBULAR, CEREBELLAR, AND SYMPATHETIC SYSTEMS: PAST AND FUTURE

Friday, April 13, 2018
9:00AM-6:00PM

Course Director
BERNARD COHEN, MD
Professor Emeritus
Department of Neurology

Course Co-Director
JOANNA JEN, MD, PhD
Dr. Morris B. Bender Professor of Neurology
Director, Division of Neuro-Otology and Neurogenetics
Department of Neurology, Otolaryngology, and Neurosurgery
PROGRAM DESCRIPTION
The interrelated functions of several systems that evolved hundreds of millions of years ago - the vestibular, cerebellar, sympathetic, and cardiovascular systems - have important clinical implications in modern neurology and neuro-otology. Operating largely out of consciousness, the vestibular system responds to head and body movement in any direction, stabilizes the head and body with regard to gravity in three-dimensional space, and maintains vital bodily functions through an interaction of vestibular-related components of the brainstem and cerebellum with the cardiovascular and sympathetic systems.

This symposium presents new basic data and clinical findings that have arisen over the first years of the 21st Century with regard to these systems and includes these broad topics:

- Fundamental vestibular, brainstem, and cerebellar science
- New approaches to vestibular diagnosis, pathology, and treatment
- Investigations of the vestibular impact on the cardiovascular and sympathetic systems

WHO SHOULD ATTEND?
Neurologists, neuro-ophthalmologists, otolaryngologists, including residents and fellows.

LEARNING OBJECTIVES

- Discuss the relationship between eye movements and various neurologic conditions and how they may facilitate differential diagnose and management.
- Identify the impact of the vestibular system on sympathetic function.
- Create an appropriate management plan for patients with Mal de Debarquement Syndrome.

ACCREDITATION
The Icahn School of Medicine at Mount Sinai is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

CREDIT DESIGNATION
The Icahn School of Medicine at Mount Sinai designates this live activity for a maximum of 8.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

VERIFICATION OF ATTENDANCE
Verification of attendance will be provided to all professionals.

SPECIAL NEEDS
The Icahn School of Medicine at Mount Sinai is in full compliance with provisions of the Americans with Disabilities Act (ADA) and is accessible for individuals with special needs. If you would like to attend this conference and require any special needs or accommodations please contact the Page and William Black Post-Graduate School of Medicine at 212-731-7950.

FACULTY DISCLOSURE
It is the policy of Icahn School of Medicine at Mount Sinai to ensure objectivity, balance, independence, transparency, and scientific rigor in all CME-sponsored educational activities. All faculty participating in the planning or implementation of a sponsored activity are expected to disclose to the audience any relevant financial relationships and to assist in resolving any conflict of interest that may arise from the relationship. Presenters must also make a meaningful disclosure to the audience of their discussions of unlabeled or unapproved drugs or devices. This information will be available as part of the course materials.

MEETING LOCATION
Icahn School of Medicine at Mount Sinai
1425 Madison Avenue
Goldwurm Auditorium
New York, NY
PROGRAM

Friday, April 13, 2018
Goldwurm Auditorium, 1st floor of the Icahn Building,
98th Street and Madison Avenue

9:00-9:10am  Opening Remarks
Barbara Vickrey, MD, MPH

9:10-9:20   Semicircular Canal-Induced Eye Movements: A View from the Past
Bernard Cohen, MD

9:20-10:00  Yahr Lecture:
Testing Semicircular Canal Function:
from Pneumatic Hammer (1892) to Video Head Impulses (2009)
G. Michael Halmagyi, BSC, MBBS, MD

10:00-10:30 Otolith-Induced cVEMPs and oVEMPs
Ian Curthoys, PhD

10:30 –10:45  BREAK

10:45-11:15  Prosthetic Restoration of Vestibulo-Ocular Reflexes – First-in-Human
Results of Long-Term MVI™ Semicircular Canal Implant Stimulation
Charles C. Della Santina, PhD, MD

11:15-11:45  A Model of Neurogenic Syncope
Theodore Raphan, PhD

11:45-12:10pm  Treatment of VasoVagal Syncope
André Diedrich, MD, PhD

12:10–1:30  Working Lunch with Residents
Joanna Jen, MD, PhD

1:30-2:00  Wernicke’s Encephalopathy: A Window to Selective Vulnerability
of the Neural Networks that Control Vertical Gaze
David Zee, MD

2:00-2:30  Controlling Blood Pressure Requires Inputs from Multiple Sensory Systems
Bill J. Yates, PhD

2:30-3:00  Vestibulo-Sympathetic Reflex Pathways
Gay Holstein, PhD

3:00-3:30  An Integrator for Vergence in the Pretectum
Jean Buettner-Ennever, PhD
Janet C. Rucker, MD

3:30-3:45  Mal de Debarquement Syndrome:
Treatment and Vestibular Source
Mingjia Dai, PhD
Sergei Yakushin, PhD

3:45-4:05  Vestibulo-Cerebellar Basis of the Mal de Debarquement Syndrome
Catherine Cho, MD

4:05-4:20  How Cerebellar Motor Learning Keeps Saccades Accurate
Albert Fuchs, PhD

4:20-4:50  "Precision" Neuro-Otology: What Can We Learn about Vestibular Dysfunction by Measuring Behavioral Variability?
Richard F. Lewis, MD

4:50-5:20  Cerebellar Genetics
Joanna Jen, MD, PhD

5:20-5:50  Closing Remarks
Bernard Cohen, MD

5:50-6:00  RECEPTION
ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI

BERNARD COHEN, MD
Professor Emeritus
Department of Neurology

BARBARA VICKREY, MD, MPH
Henry P. and Georgette Goldschmidt Professor of Neurology
System Chair
Department of Neurology

JOANNA JEN, MD, PhD
Dr. Morris B. Bender Professor of Neurology
Director, Division of Neuro-Otology and Neurogenetics
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Associate Professor
Department of Neurology, and Neuroscience

MINGJIA DAI, PhD
Assistant Professor
Department of Neurology

SERGEI YAKUSHIN, PhD
Associate Professor
Department of Neurology

JEAN BUETTNER-ENNEVER, PhD
Department of Anatomy
Ludwig-Maximilian University
Munich, Germany

CATHERINE CHO, MD
Clinical Associate Professor
Department of Neurology, and Otolaryngology
NYU Langone Medical Center
New York, NY

IAN CURTHOYS, PhD
Emeritus Professor of Vestibular Function
University of Sydney
New South Wales, Australia

ANDRÉ DIEDRICH, MD, PhD
Research Professor of Medicine
Adjunct Research Professor of Biomedical Engineering
Autonomic Dysfunction Center
Vanderbilt University Medical Center
Nashville, TN

CHARLES C. DELLA SANTINA, PhD, MD
Professor
Otolaryngology - Head & Neck Surgery, and Biomedical Engineering
Director, Vestibular NeuroEngineering Lab
Director, Johns Hopkins Listening Center (Cochlear Implant Program)
Johns Hopkins School of Medicine
Baltimore, MD

ALBERT FUCHS, PhD
Emeritus Professor
Department of Physiology and Biophysics
University of Washington
Seattle, WA

G. MICHAEL HALMAGYI, BSC, MBBS, MD
Professor
Department of Neurology
Royal Prince Alfred Hospital
Sydney, Australia

RICHARD F. LEWIS, MD
Associate Professor
Department of Otolaryngology, and Neurology
Harvard Medical School
Director, Jenks Vestibular Physiology and Diagnostic Laboratories
Massachusetts Eye and Ear Infirmary
Boston, MA

THEODORE RAPHAN, PhD
Distinguished Professor
Department of Computer and Information Science
Brooklyn College and Graduate Center of City University of New York
Brooklyn, NY

LAURENCE RETMAN YOUNG, SCD
Apollo Program Professor of Astronautics and Professor of Health Science and Technology
Massachusetts Institute of Technology
Boston, MA

JANET C. RUCKER, MD
Bernard A. and Charlotte Marden Professor
Department of Neurology
Professor, Department of Ophthalmology
Division Director and Fellowship Director, Neuro-Ophthalmology
NYU Langone Medical Center
New York, NY

BILL YATES, PhD
Professor
Otolaryngology, Neuroscience, and Clinical and Translational Science
Co-Director, Research Conduct and Compliance Office
Vice-Chair, School of Medicine Curriculum Committee
University of Pittsburgh
Pittsburgh, PA
Editor-in-Chief, Journal of Neurophysiology

DAVID ZEE, PhD
Professor
Department of Neurology
Johns Hopkins University School of Medicine
Baltimore, MD
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There is no registration fee for this event, but you must register to attend.
(Mount Sinai Neurology faculty: please do not register below if you are attending Grand Rounds only. For
Grand Rounds only you will sign in as usual and receive one-hour of CME credit.)

Two Ways to Register:
☐ Online: https://mssm.cloud-cme.com
☐ Mail: this form to:
Icahn School of Medicine at Mount Sinai
The Page and William Black Post-Graduate School
One Gustave L. Levy Place, Box 1193
New York, NY 10029

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INSTITUTION/AFILIATION SPECIALTY

Cancellation Policy: All cancellation requests must be emailed to the CME Office at cme@mssm.edu
by April 6, 2018.

For Conference Information:
Email: cme@mssm.edu or call the Office of CME at 212-731-7950