



2014 INTERNATIONAL **HEART+BRAIN** SUMMIT



October 24 – 26, 2014
Renaissance Columbus Downtown Hotel
Columbus, Ohio



2014 Heart-Brain Summit

Hosted by Course Directors, Dr. William T. Abraham & Dr. Ali R. Rezai



This activity has been approved for 10.75 AMA PRA Category 1 Credits™



For more information go to www.etches.com/osuhbsummit2014



THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER



Course Overview

Understanding the heart-brain connection is an emerging concept. The relationship between the brain and the heart is a growing field of interest and it is increasingly important to understand the role of the autonomic nervous system in cardiovascular diseases as well as emerging therapies such as neuromodulation, vagal nerve stimulation and renal denervation. Additionally, it is equally important to understand the effects of cardiovascular conditions on cognitive functions and psychiatric conditions.

The purpose of this Summit is to gather information from national and international leaders to improve the understanding and gain updated knowledge on heart-brain interactions.

Emerging science and treatment options for patient care are growing rapidly and it is important for clinicians specializing in neurocardiology to know, understand and evaluate available treatments and new technology to provide the best care for patients.

Target Audience

The Ohio State University International Heart + Brain Summit is designed for healthcare professionals in the following fields:

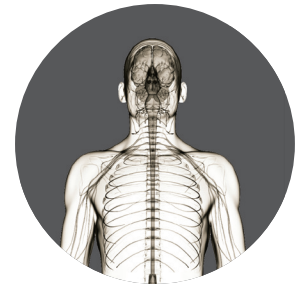
- Cardiology
- Neurology
- Neurosurgery
- Psychiatry
- Psychology

- Physical Medicine and Rehabilitation
- Nursing
- Basic and Clinical Research
- Biomedical Engineering

Learning Objectives

After completing this activity, the participant will be able to do the following:

- Define the field of Heart Brain Medicine and identify correlation
- Summarize the latest clinical evidence based medicine to support physicians in selecting the right patients for different types of interventions
- Describe the current and emerging applications in neuromodulation therapies in relation to cardiovascular disease
- Explore the relationship between the autonomic nervous system and cardiac disease
- Report current thinking about emotional and cognitive links to cardiovascular disease
- Discuss controversies central to Heart-Brain medicine





Abstract Submission

Deadline: September 19, 2014

The Ohio State University International Heart + Brain Summit invites you to submit abstracts of original investigation for consideration in the Poster Session. Abstracts previously presented at other national or international meetings will be accepted. Accepted abstracts will be printed in the syllabus. Notification of acceptance will be no later than October 3, 2014.

Submission Instructions

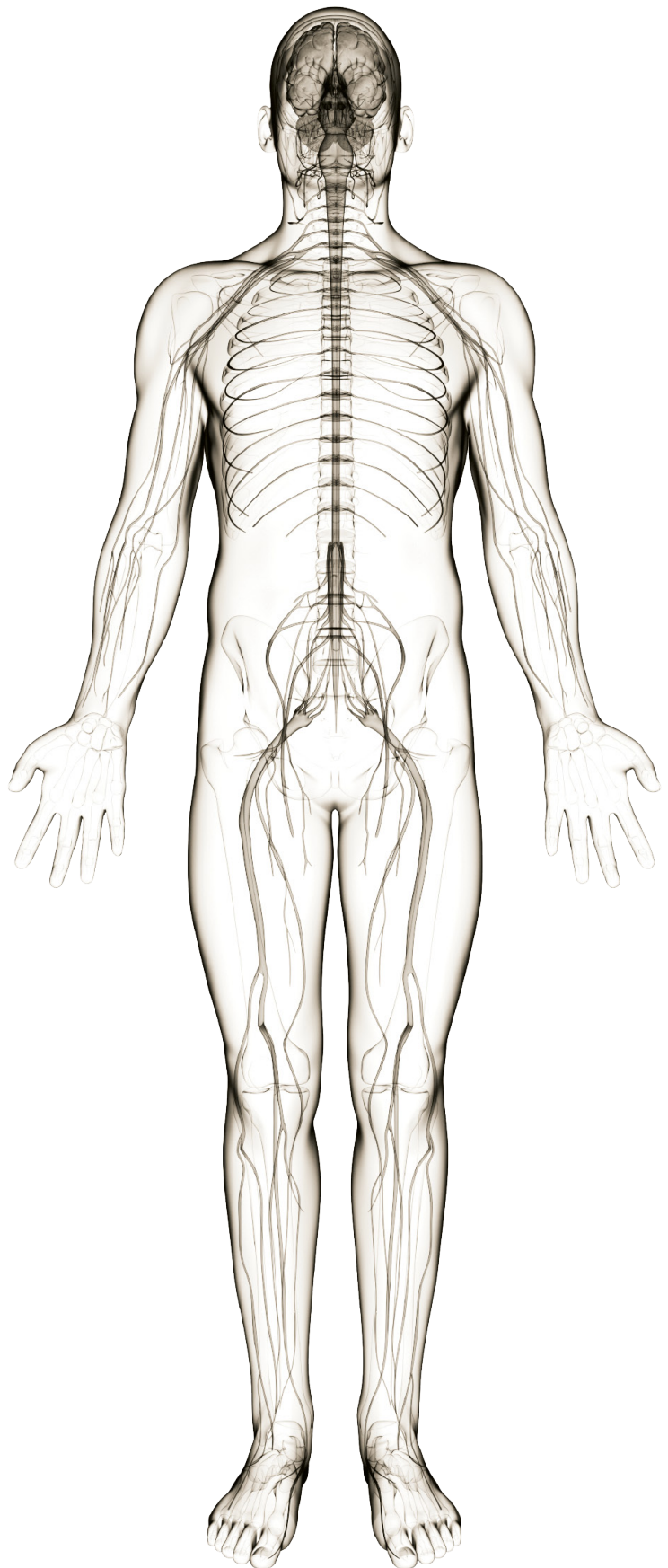
Abstracts must be submitted by e-mail to osuhbsummit@cbc-us.com. The one page abstract should be submitted as a Microsoft Word attachment using no smaller than an 11pt font size. There is no limit to the number of abstracts a presenter can submit.

Style Instructions

- Figures, graphs and simple tables are allowed.
- Use of standard abbreviations is desirable; place unusual abbreviations in parentheses after first use of the full term.

Poster Presentations

If your abstract is accepted, the presenter will be required to complete a Financial Relationship Disclosure Form per the Accreditation Council for Continuing Medical Education's (ACCME) Standards for Commercial Support. Your acceptance notice will include additional information regarding space assignment and size.





General Information

Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of CME Outfitters, LLC and Collaborative Business Communications, LLC. CME Outfitters, LLC is accredited by the ACCME to provide continuing medical education for physicians.

CME Outfitters designates this live activity for a maximum of 10.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CNE Credit (Nurses): Provider approved by the California Board of Registered Nursing, Provider Number CEP 15510, for 10.75 contact hours.

Faculty Disclosure Information

CME Outfitters has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Commercial Support requiring resolution of all faculty conflicts of interest.

Faculty declaring a relevant commercial interest will be identified in the activity program book.

Hotel Reservations

Renaissance Columbus Downtown Hotel
50 North 3rd Street
Columbus, OH 43215
(614) 228-5050

Attendees of The Ohio State University International Heart & Brain Summit are being offered a discounted room rate of \$119.00 per night, single/double occupancy. Reservations must be made by October 2, 2014 and is based on availability.

To make a reservation, contact Renaissance Reservations at 1-877-901-6632 or the hotel directly and ask for the Heart Brain Summit rate.



THE OHIO STATE UNIVERSITY

WEXNER MEDICAL CENTER



Course Directors

William T. Abraham, MD

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The Ohio State University Wexner Medical Center

Ali R. Rezai, MD

Director, Comprehensive Brain and Spine Center
The Ohio State University Wexner Medical Center

Course Faculty

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Rami Khayat, MD

Associate Professor
The Ohio State University Wexner Medical Center



Summit Agenda

Friday October 24, 2014

5:00 PM - 7:00 PM **Welcome Reception**

Saturday, October 25, 2014

8:00 AM - 8:20 AM **Welcome Address**

William Abraham, MD
Ali Rezai, MD

8:20 AM - 10:00 AM **Session One: The Heart Brain Connection**

Moderators:
Robert Foreman, PhD
Peter Mohler, PhD

8:20 AM - 8:40 AM Circadian Rhythms
8:40 AM - 9:00 AM Neural Mechanisms in Ischemic Heart Disease
9:00 AM - 9:20 AM Neural Mechanisms in Cardiac Arrhythmias and Heart Failure
9:20 AM - 9:40 AM Question and Answer – Panel Discussion
9:40 AM - 10:00 AM Break

Randy Nelson, PhD
Robert Foreman, PhD
Philip Adamson, MD

10:00 AM - 11:40 AM **Session Two: Neuromodulation for Cardiovascular Disease (Part 1)**

Moderators:
Philip Adamson, MD
Philip Binkley, MD, MPH

10:00 AM - 10:20 AM Neuromodulation: Current and Emerging Applications
10:20 AM - 10:40 AM Basics of Neuromodulation for Cardiovascular Disorders
10:40 AM - 11:00 AM Vagal Nerve Stimulation for the Treatment of Cardiovascular Disease
11:00 AM - 11:20 AM Spinal Cord Stimulation for the Treatment of Refractory Angina and Heart Failure
11:20 AM - 11:40 AM Question and Answer – Panel Discussion
11:40 AM - 1:00 PM Lunch Symposium

Ali Rezai, MD
Andrew Armour, MD, PhD
Peter Schwartz, MD
John Lopshire, MD, PhD

1:00 PM - 2:45 PM **Session Three: Neuromodulation for Cardiovascular Disease (Part 2)**

Moderators:
Ernest Mazzaferri, Jr., MD
William Abraham, MD

1:00 PM - 1:20 PM Baroreceptor Activation Therapy for Hypertension and Heart Failure
1:20 PM - 1:40 PM Renal Denervation for Treatment of Hypertension and Heart Failure
1:40 PM - 2:00 PM Other Novel Approaches to Neuromodulation
2:00 PM - 2:15 PM Question and Answer – Panel Discussion

John Bisognano, MD, PhD
George Bakris, MD
Piotr Ponikowski, MD

2:15 PM - 2:45 PM **Afternoon Debate: Targeted Neuromodulation vs. Global Neuromodulation**

Moderators:
William Abraham, MD
Ali Rezai, MD

Targeted Neuromodulation
Global Neuromodulation
2:45 PM - 3:15 PM Break

Peter Schwartz, MD
John Bisognano, MD, PhD

3:15 PM - 4:15 PM **Session Four: Depression, Psychiatric Disorders and the Heart**

Moderators:
Philip Binkley, MD MPH
John Campo, MD

3:15 PM - 3:30 PM Chronic Disease and Depression
3:30 PM - 3:45 PM Depression and Cardiovascular Disease
3:45 PM - 4:00 PM Social Influences on Depression after Cardiac Arrest
4:00 PM - 4:15 PM Question and Answer

John Campo, MD
Philip Binkley, MD, MPH
Courtney DeVries, PhD

4:30 PM - 6:00 PM **Poster Session and Wine and Cheese Reception**



Sunday, October 26, 2014

8:00 AM - 9:45 AM	Session Five: Sleep, Respiration and Heart Brain Connections	Moderators: Rami Khayat, MD Piotr Ponikowski, MD
8:00 AM - 8:25 AM	Guided Breathing to Reduce Blood Pressure: Mechanisms and Outcomes	George Bakris, MD
8:25 AM - 8:45 AM	Sleep Apnea in Cardiovascular and Neurological Disorders	Rami Khayat, MD
8:45 AM - 9:05 AM	Transvenous Phrenic Nerve Stimulation for Central Sleep Apnea	William Abraham, MD
9:05 AM - 9:25 AM	Glossopharyngeal Nerve Stimulation for Obstructive Sleep Apnea	Patrick Strollo, MD
9:25 AM - 9:45 AM	Question and Answer	
9:45 AM - 10:15 AM	Break	
10:15 AM - 12:00 PM	Session Six: Syncope, Seizures and Stroke	Moderators: Ashwini Sharan, MD Raul Weiss, MD
10:15 AM - 10:35 AM	Autonomic Disorders and Syncope: Overview	Blair Grubb, MD
10:35 AM - 10:55 AM	Clinical Evaluation and Management of Syncope	Raul Weiss, MD
10:55 AM - 11:15 AM	Sudden Unexpected Death in Epilepsy – SUDEP	Ashwini Sharan, MD
11:15 AM - 11:35 PM	Cryptogenic Stroke	Mahmoud Houmsse, MD
11:35 PM - 11:55 PM	Question and Answer	
11:55 PM - 12:00 PM	Closing Remarks	William Abraham, MD Ali Rezai, MD

Registration

To register go to www.etches.com/osuhbsummit2014

Registration Fees:

Physician / Scientist	\$ 300
Ohio State Physician / Scientist	\$ 200
Resident / Fellow	\$ 150
Ohio State Resident Fellow	\$ 100
Nurse / Allied Health Professional / Other	\$ 150
Ohio State Nurse / Allied Health Professional / Other	\$ 100
Industry Professional	\$ 400

Registration fees include: attendance, program book, continental breakfasts, lunches, breaks, welcome reception and poster reception.

Registration/Cancellation Policy: The registration deadline is October 20, 2014. Please register on-site after October 20th. Refunds and cancellations are subject to a \$50.00 service charge. A request for refund must be submitted in writing to osuhbsummit@cbc-us.com by October 20, 2014. No refunds will be issued after October 20, 2014.



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