



**Course Directors:**

Barry J. Maron, MD  
and Martin S. Maron, MD

**Jointly Provided By:**

Tufts Medical Center,  
Hypertrophic  
Cardiomyopathy Center &  
Tufts University School of  
Medicine, Office of  
Continuing Education

**In Conjunction With:**

Morristown Medical Center,  
Chanin T. Mast HCM Center

# INTERNATIONAL HCM SUMMIT



## HYPERTROPHIC CARDIOMYOPATHY

*A Contemporary and Treatable  
Genetic Disease: Diagnosis,  
Heart Failure Management, and  
Prevention of Sudden Death*

**October**

**27–29, 2017**

Seaport Hotel

**Boston**

Massachusetts

USA

## DESCRIPTION

HCM Summit VI offers attendees an opportunity to learn the clinical, morphologic, and genetic spectrum of hypertrophic cardiomyopathy (HCM) from a renowned international faculty. We will explore a detailed contemporary view of HCM in which improved diagnostic techniques and management strategies have reduced disease mortality and vastly improved thousands of patients' lives.

### TARGET AUDIENCE

- » Practicing cardiologists, internists, pediatricians, nurses and other healthcare professionals with an interest in HCM.
- » Residents, fellows, and medical students.
- » Clinicians and basic researchers directly involved with HCM.

### LEARNER OBJECTIVES/OUTCOMES

- » Choose contemporary management strategies for high-risk and other patient subgroups, including: surgical septal myectomy, alcohol septal ablation, and prevention of sudden death with implantable defibrillators.
- » Outline the causes of sudden death in competitive athletes and the profile of HCM in athlete populations.
- » Outline the pros and cons of different mass screening strategies for detecting HCM in general populations.
- » Interpret new advances in drug treatment, relief of LV outflow obstruction with novel operative or percutaneous techniques, and the potential application of systems biology and personalized medicine to HCM.

### ACTIVITY GOALS

- » Identify HCM's clinical, morphologic, and genetic spectra.
- » Understand the natural history, clinical course, and overall disease burden of HCM.
- » Review contemporary management strategies, including surgical septal myectomy, alcohol septal ablation, and sudden death prevention through implantable defibrillators.
- » Assess and determine appropriate advanced heart failure management and selection of patients for heart transplant.
- » Understand atrial fibrillation's disease burden and contemporary management strategies.
- » Explore mechanisms responsible for adverse clinical events and natural history.
- » Learn the roles of advanced diagnostic modalities, including magnetic resonance imaging (MRI) and novel echocardiographic techniques.
- » Understand the clinical significance and occurrence of left ventricular outflow obstruction (at rest and with provocation), and the natural history of patients without obstruction.
- » Learn competitive athlete sudden death causes and HCM profile in athlete populations.
- » Understand the pros and cons of mass screening strategies to detect HCM in general populations.
- » Discover key technologic developments in diagnosis, sudden death risk assessment, and myocardial fibrosis detection with contrast MRI.
- » Learn new advances in drug treatment, animal models, and LV outflow obstruction relief via novel operative or percutaneous techniques.
- » Explore the potential applications of systems biology, personalized medicine, and dedicated worldwide HCM Centers (including those in developing countries).

This activity is designed to address the following ACGME/ABMS and IOM competencies:

- » Medical/clinical knowledge
- » Patient care



## PLANNING COMMITTEE

### Martin S. Maron, MD

Director, Hypertrophic Cardiomyopathy Center, Tufts Medical Center

### Barry J. Maron, MD

Hypertrophic Cardiomyopathy Center, Tufts Medical Center

### Linda Ordway, RN, MS, ACNP-BC

Nurse Planner, Office of Continuing Education, Tufts University School of Medicine

## DISCLOSURE

Disclosure information from faculty and all others in control of content will be provided to participants prior to the beginning of the educational activity.

## COMMERCIAL SUPPORT AND EXHIBITORS

A complete list of commercial supporters and exhibitors will be provided to participants in activity materials.

## ADA/OEO NON-DISCRIMINATION POLICY

TUSM considers all applicants and program participants without regard to race, color, national origin, age, religious creed, sex, or sexual orientation. TUSM is an Equal Opportunity Employer. TUSM does not discriminate on the basis of a disability in admissions, access to treatment, or employment in their programs and activities, as identified in the Americans with Disabilities Act. Please let us know in advance if you require any accommodations.

## POLICY ON PRIVACY AND CONFIDENTIALITY

View the privacy policy for TUSM OCE, at: [medicine.tufts.edu/Education/Continuing-Education/Privacy-and-Confidentiality-Policy](http://medicine.tufts.edu/Education/Continuing-Education/Privacy-and-Confidentiality-Policy)

## FOR QUESTIONS REGARDING CONTINUING EDUCATION

Please contact TUSM OCE at [med-oce@tufts.edu](mailto:med-oce@tufts.edu) or 617-636-6579.

## ACCREDITATION STATEMENTS

### Physicians

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Tufts University School of Medicine (TUSM) and Tufts Medical Center, Hypertrophic Cardiomyopathy Center. TUSM is accredited by the ACCME to provide continuing medical education for physicians.

TUSM designates this live activity for a maximum of **21.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### Nurses

Tufts University School of Medicine Office of Continuing Education (TUSM OCE) is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

This activity provides **21.25 Contact Hours for nurses**.

### Requirements for Successful Completion

To receive continuing education (CE) credit/contact hours, participants must sign in, attend the activity, and complete and submit the activity evaluation provided in syllabus materials and/or via the event website. Partial credit/contact hours will be awarded for attending one or more presentations. Certificates/statements of credit will be emailed/mailed 4-6 weeks after the activity.

## FACULTY

### Hisham Ahamed, MD, DM

Amrita Institute of Medical Sciences  
Kochi, Kerala, India

### Euan Ashley, MD

Stanford University Medical Center  
Stanford, California

### Cristina Basso, MD, PhD

University of Padua  
Padua, Italy

### Eugene Braunwald, MD

Brigham and Women's Hospital  
Boston, Massachusetts

### Franco Cecchi, MD

University of Florence  
Florence, Italy

### Joseph A. Dearani, MD

Mayo Clinic  
Rochester, Minnesota

### N.A. Mark Estes, III, MD

Tufts Medical Center  
Boston, Massachusetts

### Paolo Ferrazzi, MD

Policlinico di Monza  
Monza, Italy

### Albert Hagege, MD, PhD

Georges Pompidou European Hospital  
Paris, France

### Stephen Heitner, MD

Oregon Health & Science University  
Portland, Oregon

### Carolyn Ho, MD

Brigham and Women's Hospital  
Boston, Massachusetts

### Carey Kimmelstiel, MD

Tufts Medical Center  
Boston, Massachusetts

### Isaac Kohane, MD, PhD

Boston Children's Hospital  
Boston, MA

### Harry M. Lever, MD

Cleveland Clinic Foundation  
Cleveland, Ohio

### Benjamin Levine, MD

UT Southwestern Medical Center  
Dallas, Texas

### Joseph Loscalzo, MD, PhD

Brigham and Women's Hospital  
Boston, Massachusetts

### Barry J. Maron, MD

Tufts Medical Center  
Boston, Massachusetts

### Bradley A. Maron, MD

Brigham and Women's Hospital  
Boston, Massachusetts

### Martin S. Maron, MD

Tufts Medical Center  
Boston, Massachusetts

### Michelle Michels, MD, PhD

Thoraxcenter, Erasmus Medical Center  
Rotterdam, The Netherlands

### Iacopo Olivotto, MD

Careggi University Hospital  
Florence, Italy

### Steve R. Ommen, MD

Mayo Clinic  
Rochester, Minnesota

### Walter J. Paulus, MD, PhD

VU University Medical Center  
Amsterdam, The Netherlands

### Antonio Pelliccia, MD

Istituto Di Medicina E Scienza Dello Sport  
Rome, Italy

### Harry Rakowski, MD

Toronto General Hospital  
Toronto, Canada

### Ethan J. Rowin, MD

Tufts Medical Center  
Boston, Massachusetts

### Lisa Salberg, Founder

HCMA  
Hibernia, New Jersey

### Christine E. Seidman, MD

Brigham and Women's Hospital  
Boston, Massachusetts

### Christopher Semsarian, MD, PhD

University of Sydney  
New South Wales, Australia

### Mark V. Sherrid, MD

NYU Langone Medical Center  
New York, New York

### Paul Sorajja, MD

Minneapolis Heart Institute Foundation  
Minneapolis, Minnesota

### Paolo Spirito, MD

Policlinico di Monza  
Monza, Italy

### Gaetano Thiene, MD

University of Padua  
Padua, Italy

### Paul Thompson, MD

Hartford Hospital  
Hartford, Connecticut

### Jeffrey A. Towbin, MD

Le Bonheur Children's Hospital  
Memphis, Tennessee

# AGENDA

FRIDAY, OCTOBER 27, 2017

---

7:30 am	REGISTRATION, CONTINENTAL BREAKFAST, EXHIBITS
---------	---

---

8:20 am	<b>WELCOME</b> <i>Barry J. Maron, MD</i> <i>Martin S. Maron, MD</i>
---------	---

---

8:25 am	<b>Brief Introduction to HCM: Basic Principles &amp; Prevalence</b> <i>Barry J. Maron, MD</i>
---------	--

---

8:35 am	<b>30 Years of HCM Genomics: Where Have We Been and Now Where Are We Going?</b> <i>Christine E. Seidman, MD</i>
---------	--

---

9:05 am	<b>HCM &amp; Genetic Testing Reports: Interpretation, Integration, Reclassification</b> <i>Christopher Semsarian, MD, PhD</i>
---------	--

---

9:40 am	<b>Counterpoint: Novel Perspectives on Genetic Testing and Pathogenicity</b> <i>Isaac Kohane, MD, PhD</i>
---------	--

---

10:10 am	<b>BREAK</b>
----------	--------------

---

10:40 am	<b>Genotype Positive-Phenotype Negative: Is It a Disease?</b> <i>Michelle Michels, MD, PhD</i>
----------	---

---

11:10 am	<b>Contemporary Imaging Diagnosis: CMR and the Phenotype: LVH, Aneurysms, Crypts, and Mitral Valve</b> <i>Ethan J. Rowin, MD</i>
----------	---

---

11:35 am	<b>The Doug Wigle Lecture: Survival of Echocardiography for HCM in the Era of Advanced CMR Imaging</b> <i>Harry Rakowski, MD</i>
----------	---

---

12:10 pm	<b>LUNCHEON ADDRESS*</b> <b>HCM—Reflections on the Discovery of a New Disease: Both Obstructive and Non-obstructive</b> <i>Eugene Braunwald, MD</i>
----------	---

\*Only 1 hour of CE will be offered

\*Donald Teare Award

---

1:30 pm	<b>Great Debate: Risk Stratification Strategies for Reliable Identification of High-Risk Patients</b> <i>Albert Hagege, MD, PhD for ESC Guidelines vs. Steve R. Ommen, MD, for ACC/AHA Guidelines</i>
---------	--

---

2:20 pm	<b>The ICD: Prevention of Sudden Death in Children &amp; Adults</b> <i>Barry J. Maron, MD</i>
---------	--

---

2:55 pm	<b>What About the Sub-Q ICD? And What You Should Know About Transvenous Leads</b> <i>N.A. Mark Estes III, MD</i>
---------	---

---

3:25 pm	<b>BREAK</b>
---------	--------------

---

4:00 pm	<b>Challenges of Risk Stratification in the Individual HCM Patient: Including Those Without Risk Factors</b> <i>Paolo Spirito, MD</i>
---------	--

---

4:30 pm	<b>HCM, CMR, and LGE: The Newest Risk Marker</b> <i>Martin S. Maron, MD</i>
---------	--

---

5:05 pm	<b>Pathology of CMR: What Do the Novel Markers Mean to Pathologists? LGE &amp; T1 Mapping?</b>
---------	--

Note: As this is an interactive event, a 5- to 10-minute Q&A period has been included in the design of the program following each lecture.

# AGENDA

SATURDAY, OCTOBER 28, 2017

- 5:35 pm *Cristina Basso, MD*  
**Sudden Cardiac Death in Young Athletes:  
A Pathologist's Experience with the Causes:  
HCM, ARVC, and "Normal Hearts" and Implications  
for Screening**  
*Gaetano Thiene, MD*
- 
- 6:10 pm **Debate:**  
**US vs European Perspective on  
Cardiovascular Screening of Competitive Athletes**  
*Paul Thompson, MD, for US*  
*Antonio Pelliccia, MD, for Europe*
- 
- 6:45 pm **ADJOURN**
- 
- 7:00 pm **RECEPTION**  
**Cocktails/Hors d'oeuvres for Registrants and Faculty**  
Boston Harbor  
Friday night, we invite all Summit attendees to join us for a reception in The Seaport Hotel's Lighthouse Ballroom. Network with expert faculty members and fellow registrants while enjoying views of historic Boston Harbor and the city skyline.

- 7:30 am **CONTINENTAL BREAKFAST AND EXHIBITS**
- 
- 8:00 am **Obstructive vs. Non-obstructive HCM: The Known vs. the Unknown**  
*Martin S. Maron, MD*
- 
- 8:35 am **Heart Failure Management: Including End-Stage with or without Systolic Dysfunction: Transplant Indications**  
*Iacopo Olivotto, MD*
- 
- 9:10 am **Diastolic Dysfunction in HCM: Forgotten, but Not Really**  
*Walter J. Paulus, MD, PhD*
- 
- 9:40 am **BREAK**
- 
- 10:15 am **Pulmonary Hypertension in HCM: Overlooked, but Not Forgotten**  
*Bradley A. Maron, MD*
- 
- 10:45 am **Atrial Fibrillation: Natural History/Management Including the Significance of Silent AF**  
*Iacopo Olivotto, MD*
- 
- 11:20 am **HCM Challenges in Pediatric Cardiology: Nomenclature, Syndromes, Management**  
*Jeffrey A. Towbin, MD*
- 
- 11:55 am **The Phenocopies: Fabry Disease**  
*Franco Cecchi, MD*
- 
- 12:30 pm **LUNCHEON ADDRESS\***  
**The HCMA and Patient Advocacy**  
*Lisa Salberg, HCMA Founder*

\*No CE offered for this session

Note: As this is an interactive event, a 5- to 10-minute Q&A period has been included in the design of the program following each lecture.



# AGENDA

SUNDAY, OCTOBER 29, 2017

1:45 pm **Mechanism(s) of Outflow Obstruction: How Our Interventions Work—Which Patients Might Be Selected for Earlier Surgery?**  
*Mark V. Sherrid, MD*

---

2:20 pm **Surgical Septal Myectomy: Historic Gold Standard with Low Operative Mortality, Long-Term Survival, and Reduced Sudden Death Risk—but Who Should Do It?**  
*Joseph A. Dearani, MD*

---

2:55 pm **European Perspectives on Operative Strategy: The Innovation of Chordal Cutting**  
*Paolo Ferrazzi, MD*

---

3:30 pm **BREAK**

---

4:00 pm **Role of Alcohol Septal Ablation**  
*Carey Kimmelstiel, MD*

---

4:35 pm **Anatomy of the Mitral Apparatus and Relevance to Septal Reduction Therapy**  
*Harry M. Lever, MD*

---

5:05 pm **Surgical Myectomy and Alcohol Septal Ablation: Putting It All Together (2017)**  
*Steve R. Ommen, MD*

---

5:40 pm **How HCM Became a Contemporary Treatable Disease Based on 50 Years of Clinical Investigation: Lifetime Disease Burden**  
*Barry J. Maron, MD*

---

6:15 pm **ADJOURN**

7:30 am **CONTINENTAL BREAKFAST**

---

8:00 am **Myosin Modulator: A Novel Oral Treatment for Obstructive HCM**  
*Martin S. Maron, MD*

---

8:25 am **The Liberty Trial Story**  
*Iacopo Olivotto, MD*

---

8:50 am **The VANISH Study: Is There a Role for Angiotensin Inhibitors in HCM?**  
*Carolyn Ho, MD*

---

9:15 am **Gene Editing in Hypertrophic Cardiomyopathy**  
*Stephen Heitner, MD*

---

9:40 am **Novel Percutaneous Therapy for LV Outflow Obstruction**  
*Paul Sorajja, MD*

---

10:05 am **Exercise in HCM: How Much is OK—or Enough—and What Kind?**  
*Benjamin Levine, MD*

---

10:30 am **HCM in the Developing World**  
*Hisham Ahamed, MD, DM*

---

11:05 am **The Future: Big Data and HCM**  
*Joseph Loscalzo, MD, PhD*

---

11:40 am **Personalized Medicine and HCM: Do They Really Fit Together?**  
*Euan Ashley, MD*

---

12:15 pm **EPILOGUE**  
*Martin S. Maron, MD*

---

12:30 pm **ADJOURN**

*Note: As this is an interactive event, a 5- to 10-minute Q&A period has been included in the design of the program following each lecture.*

## DETAILS

### TUITION

---

\$795 physicians

\$350 nurses, residents, fellows, other health professionals

\$250 patients

Tuition includes Summit VI materials, breakfast, lunch, and break refreshments throughout the event. Advanced registration

is required and will be accepted until **Wednesday, September 21, 2017**. Register early to secure your place—space is limited.

### LOCATION

---

#### Seaport Hotel

One Seaport Lane  
Boston, MA 02210

T: 617.385.4300

F: 617.385.4001

info@seaportboston.com

www.seaportboston.com

### QUESTIONS

---

For questions about Summit VI, please call 508-667-9071 or email [emily@lalonemarketing.com](mailto:emily@lalonemarketing.com).

### DISCOUNTED HOTEL RESERVATIONS

---

Rooms have been reserved at Boston's Seaport Hotel at a discounted rate of \$289 for an executive king suite, single or double occupancy, plus tax. To secure your discounted rate, book early—and no later than **Wednesday, September 21, 2017**.

Online reservations recommended: [www.hcmsummit.org](http://www.hcmsummit.org)

Or, to reserve your room by phone: 617-385-4000 (U.S. callers) or 877-SEAPORT (732-7678) (international callers). To get the group rate, mention HCM Summit VI and the event dates.

### CANCELLATION AND REFUND POLICY

---

For cancellations received before October 1, 2017, tuition balances will be refunded minus a \$50 processing fee per registrant. Cancellation requests after this date will not receive refunds. Substitutions are accepted at any time. To complete your cancellation or substitution call 508-667-9071 or email [emily@lalonemarketing.com](mailto:emily@lalonemarketing.com).

In the unlikely event of the Summit VI's cancellation, TUSM OCE, the Hypertrophic Cardiomyopathy Center at Tufts Medical Center, and the event organizers are not responsible for airfare, hotel, or other costs incurred by participants. We reserve the right to cancel a session or substitute a qualified speaker if an emergency arises.

## SPONSORS

EVENT SPONSORSHIP HAS BEEN PROVIDED  
BY THE FOLLOWING COMPANIES:

Gilead

Philips Healthcare

MyoKardia, Inc.

BIOTRONIK, Inc.

Sanofi Genzyme

Medtronic, Inc.

GeneDX

The Boston Scientific Corporation

Ambry Genetics—Cardiology

Blueprint Genetics, Inc.

Invitae Corporation

Bristol-Myers Squibb

*Additional Sponsors may be confirmed. Please see the course website [www.hcmsummit.org](http://www.hcmsummit.org) for updated list. A full list will be provided in the course syllabus.*



# REGISTRATION

Registration confirmation, conference information, and survey will be sent via email. You will receive a reminder email including a map with directions one week prior to Summit VI. If you do not receive this confirmation, please contact us to verify your registration.

**REGISTER AND PAY ONLINE NOW VIA CREDIT CARD** (preferred method)

[www.hcmsummit.org](http://www.hcmsummit.org)

We accept:

Visa     MasterCard     American Express     Discover

**You may also register and pay via check by mailing this completed form to:**

Lauren Pearson  
Tufts Medical Center  
800 Washington Street, Box #1101  
Boston, MA 02111

Checks payable to: **Tufts Medical Center, Inc.**

## PLEASE PRINT

First and Last Name \_\_\_\_\_

Email \_\_\_\_\_

Phone (Daytime) \_\_\_\_\_

Credentials/Job Title \_\_\_\_\_

Employer \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

## TUITION

- \$795 physicians
- \$350 nurses, residents, fellows, other health professionals
- \$250 patients



800 Washington Street, #1101  
Boston, Massachusetts 02111

**Tufts** Medical  
Center  

---

*The CardioVascular Center*